SERVICE MANUAL SD420

marantz®

model SD420

Stereo Cassette Deck

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

U.S.A.
Marantz Company, Inc.
National Service Dept.
P.O. Box 577
Chatsworth, CA 91311
U.S.A.

CANADA
Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA
Marantz Australia
32 Cross Street
Brookvale, NSW 2100
Australia

JAPAN
Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara-shi
Kanagawa, Japan

EUROPE

Marantz Europe S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium

Marantz France
4 rue Bernard Palissy
92600 Asnieres
France

Marantz Audio U.K., Ltd.
193 London Road
Staines, Middlesex
United Kingdom

Marantz Germany GMBH
Max-Planck-Strasse 22
6072 Dreieich
West Germany

Marantz Belgium
45 rue Auguste Van Zande
1080 Brussels
Belgium

Marantz Svenska A.B.
Svartviksvägen 56
Traneberg
Box 12016
161 12 Bromma
Sweden

Marantz Norske A.S.
Refstadalleen 13
Oslo 5
Norway

Marantz Denmark
Bregnerødvej 132b
3460BIRKERØD
DENMARK

Marantz GMBH Austria
Wiedner Hauptstrasse 98
1050 WIEN
AUSTRIA

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

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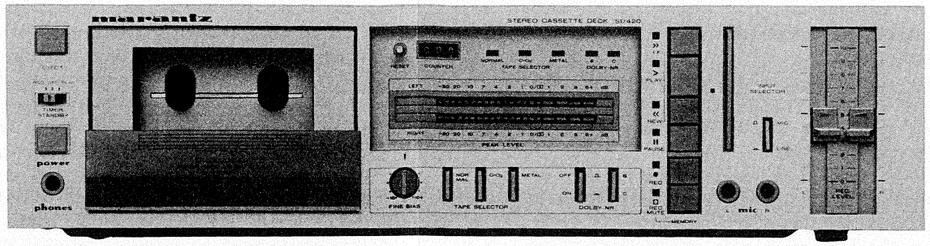
MARANTZ MODEL SD420 CASSETTE DECK



INTRODUCTION

This service manual are prepared for use by Authorized Warranty Station and contains service information for Marantz Stereo Cassette Deck.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the Cassette Deck.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can be usually obtained through local suppliers.

1. SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verfied before return to user/customer.

Ref. UL Standard NO. 1270. Para. 66. 3. D (Mandatory Test after servicing Electrical Appliances, effective 7-1-83).

2. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of your Cassette Deck consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Dolby B/C NR . . . . mounted on P.W. Board P601
2. Power Supply . . . . mounted on P.W. Board P801
3. Main Amp . . . . . mounted on P.W. Board PJ01
4. Head Phone . . . . . mounted on P.W. Board PJ02
5. Rec Volume . . . . . mounted on P.W. Board PK01
6. Timer Switch . . . . . mounted on P.W. Board PU01
7. Key Switch . . . . . mounted on P.W. Board PY01
8. Indicator . . . . . mounted on P.W. Board PY02

3. TEST EQUIPMENT REQUIRED FOR SERVICING

For measuring or checking your Cassette Deck, the following instruments and materials are necessary.

- VTVM
- Audio Oscillator (AF OSC)
- Attenuator (600 Ω)
- Oscilloscope
- Bandpass Filter (1 kHz)
- IEC A-Curve Filter
- Wow and Flutter Meter
- Torque Meter (Cassette Type)
- Digital Frequency Counter
- Distortion Meter
- Blank Tapes (Completely erased with bulk eraser)
  TDK AC-212 (Normal)
  TDK AC-512 (Special/CrO_2)
  TDK AC-711 (Metal)

NOTE: If any doubt is noted in a measured value, use new tape.

- Test Tapes (New Tape)
  MTT-111 Wow and Flutter, Tape Speed
  MTT-112 Measurements of Output Level
  MTT-112B Signal-to-Noise Ratio
  MTT-150 Adjustment of Output Level
  MTT-256 Frequency Response (for Normal)
  MTT-356 Frequency Response (for Special/CrO_2, Fe-Cr and Metal)
  MTT-121 Cross Talk
  MTT-141 Channel Separation

4. DESCRIPTIONS OF MECHANISM AND CIRCUIT OPERATIONS

4.1 INITIAL CHECK

The following are items to be checked when the mechanism does not work even if the operation button of the set is pressed.

1. Mount the cassette tape and close the cassette door. The "REW" LED indicator should appear on and the supply reel should rotate clockwise slightly until the tape gets straightened.
2. If the above operation does not occur, it indicates that the mechanism control circuit does not work. In such a case check the following:
   - 2-1. Check whether or not pin 36 of QU01 is 0 V. If it is not 0 V, check if the EJECT switch (S073) and the cassette switch (S071) have been set to ON. Also check if QU07 is on.
   - 2-2. Check whether or not clock pulses are generated. Pulse signals having a frequency of approximately 400 kHz should appear at pins 1 and 42.
   - 2-3. Check whether or not a voltage of +5 V appears at pin 41.

NOTE: This set is designed so that it will not operate even if the operation button is pressed unless a tape is mounted on the cassette holder and the cassette door is closed.

4.2 IC OPERATION CIRCUIT

The mechanism is driven by IC outputs. The circuit that generates the IC outputs consists of push switches (SY01 to SY08).

Pulses shown in Figure 1 are generated at pins 2 and 3 of QU01 and applied to the push switches.

When no cassette tape is mounted or when S071, S073 and QU07 are off, that is, when pin 36 is 5 V, the outputs at pins 2 and 3 remain level at 5 V.

Pressing a push switch will cause the output of pin 2 or 3 to be applied to one of pins 37 to 40 that corresponds to the push switch and cause the outputs of QU01 to change.

NOTES: 1. Applying the voltage level 5 V to pins 37 to 40 will not change the outputs of QU01.
2. The width of the pulses output at pins 2 and 3 varies.

4.3 FF/REW OPERATIONS

The power of the reel motor (M072) is supplied by Q807. Since Q806 is normally off, the output voltage of Q807 is 4.6V, a voltage set by D805.

At the STOP condition, the outputs of pins 24 and 25 are both 5 V. Therefore, QM03 and QM04 are off and no voltage is applied to M072.

When the FF button is pressed, the output at pin 25 becomes 0 V and a current flows through QM04, M072 and then QM01.

Since during the REW operation the output at pin 24 is 0 V, a current flows through QM03, M072 and then QM01.

4.4 PLAY OPERATION

When the PLAY button is pressed, pin 12 turns off and QU04.L072 (play plunger) turns on, causing the head chassis to rise and the pinch roller to press the capstan. At that time, the output at pin 23 turns on for 0.2 seconds. As a result, Q803 and D806 turn off and a voltage of approximately 18 V is applied to L072. Then, the output at pin 23 turns off, causing D806 and Q803 to turn on and the voltage applied to L072 to decrease to 7.5 V. At this time the plunger is held at its position.

The mechanism is characterized in that during the PLAY operation the take-up reel is driven by the reel motor.

For this reason, during the PLAY operation the output at pin 24 is 0 V as in the case of the FF operaion, causing the reel motor to rotate in the same direction as the FF operation. At the same time pin 22 is also off whereas Q806 is on. Accordingly, the output of Q807 which is the voltage applied to the reel motor is equal to the voltage divided by resistors R811 and R807. The value of this voltage is approximately 3.5 V. In addition, pin 29 becomes 0 V, cancelling the muting state of the line amplifier.

4.5 STOP OPERATION

When the STOP button is pressed while the mechanism is operating, pin 13 turns off for 0.4 seconds and QU05.L071 (break plunger) turns on. In addition, the pulses output by Q071, a photo-coupler, which keeps track of the rotation of the take-up reel are applied to pin 33. The winding of the tape is ended and the reel stops rotating. The output of Q071 remains level at 5 V or 0.5 V and as no more pulses enter pin 33, the mechanism is shut off automatically.

4.6 REC OPERATION

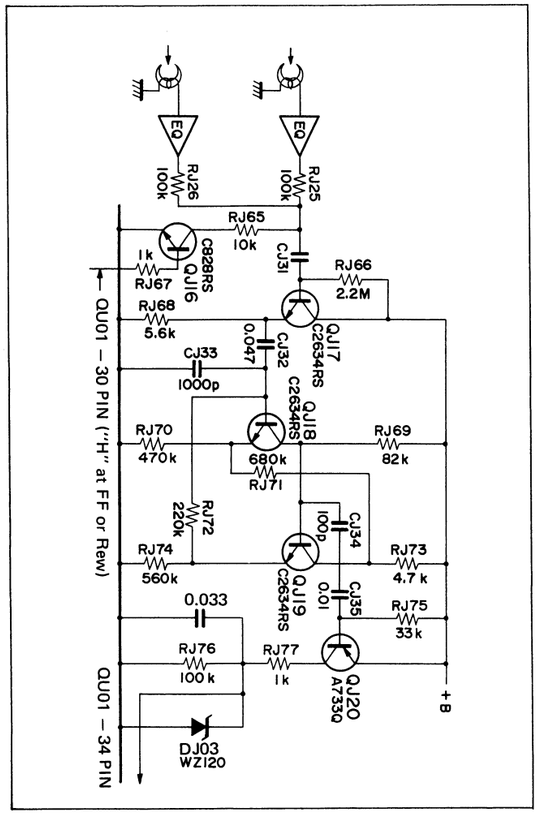
Pressing the REC button only will not activate the mechanism. Therefore, the PLAY or PAUSE button should be pressed at the same time. Also, before pressing the REC button, turn on S072, a switch used to prevent erroneous erasure. In addition, the signal at pin 33 must be 0 V during the REC operation.

The output at pin 28 becomes 0 V, cancelling the muting state of REC AMP only when the REC and PLAY buttons are pressed simultaneously. The signal at pin 27 becomes 5 V, putting the circuit in the recording state.

4.7 PAUSE OPERATION

Pressing the PAUSE button only will not activate the mechanism. If it is pressed while the mechanism is executing the PLAY operation or while the PAUSE button is being pressed, the mechanism enters a state similar to STOP. At this time the signals at pins 28 and 29 becomes 5 V, putting the line amplifier in the muting state.

4.8 SKIP CIRCUIT



The PLAY equalizer output is produced by RJ25 and RJ26 and applied to QJ17. During SKIP RUN the head output becomes 10 times as much. However, at this time QJ16 is turned on by the output of pin 30 of QU01. As a result, the voltage fed to QJ17 is divided between RJ25/RJ26 and RJ65 and at a level almost the same as that of the normal PLAY operation. QJ17 serves as a buffer which is needed because the input impedance of QJ18 is low. When the MTT-150 is in the PLAY mode, the input voltage of QJ17 is approximately 100 mV. This voltage is also about 100 mV during SKIP RUN. The output of QJ17 is amplified by 54 db by means of QJ18 and QJ19 and then differentiated by CJ35 and RJ75. The output resulting from the differentiation appears at the collector of QJ20 and is transmitted to the micro-computer.

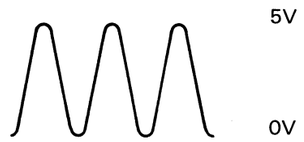
When the peak voltage of the QJ20 output exceeds +5 V, QU01 receives an "H" level signal.

When no signal is received at pin 34 of QU01 for more than 3/20 seconds in the case of SKIP RUN or for more than 3 seconds in the case of single curved peaks, the mechanism will enter PLAY SKIP RUN.

Since the input at pin 34 of QU01 may reach 12 V, QU01 is designed so that it can withstand inputs up to 12 V at pin 34. Actually, the output of QJ20 may exceed 12 V, but it is clipped to a maximum value of 12 V by DJ02.

4.9 CHECKING VOLTAGES OUTPUT AT PINS OF QU01

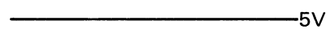
①



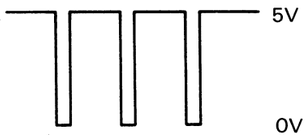
④ N.C

②③⑤

No cassette tape is mounted



With a cassette tape mounted

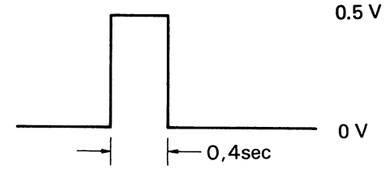


⑥⑦⑧ 5V

⑨⑩⑪ N.C

⑫ For PLAY 0.5V and for other modes 0 V

⑬ Brake



⑭ For PLAY 0.5V and for other modes 0 V

⑮ For REC 0.5 V and for other modes 3 V

⑯ For PAUSE 0.5 V and for other modes 3 V

⑰ For PLAY 0.5 V and for other modes 3 V

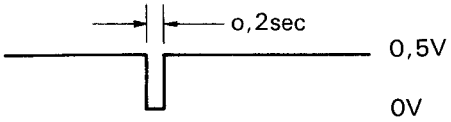
⑱ For REW 0.5 V and for other modes 3V

⑲ For FF 0.5 V and for other modes 3V

⑳㉑ GND

㉒ For PLAY 0.5 V and for other modes 3 V

㉓ With each plunger turned on:



㉔ For REW 0V and for other modes 5 V

㉕ For FF/PLAY 0 V and for other modes 5 V

㉖ N.C

㉗ For REC 5 V and for other modes 0 V

㉘ For REC/PLAY 0 V and for other modes 5 V

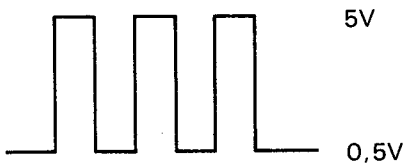
㉙ For PLAY, REC/PLAY and REC/PAUSE 0 V and for other modes 3 V

㉚ For FF and REW 3 V and for other modes 0 V

㉛ With the REC/MUTE or SKIP MEMO button pressed 2 V; otherwise 0 V

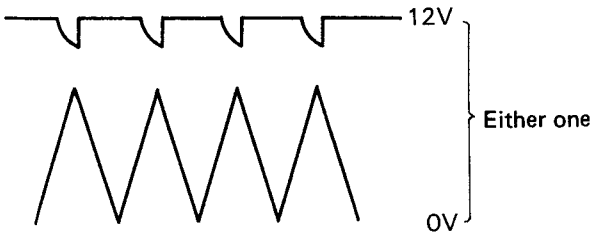
㉜ N.C

㉝ For PLAY, FF and REW:



For STOP or PAUSE 5 V or 0.5 V

㉞ PLAY or SKIP (A recorded tape is used):



For other modes 0 V

㉟ With an erroneous erasure proof cassette mounted 0 V; otherwise 5 V

㊱ With a cassette tape mounted 0 V; otherwise 5 V

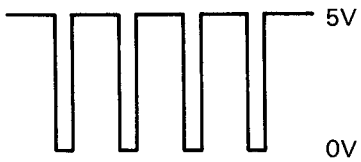
㊲ ㊳ ㊴ ㊵ (With no buttons pressed) 5 V

With one of the above buttons pressed

㊲ Rec Mute
Skip Memo

㊳ Rec FF

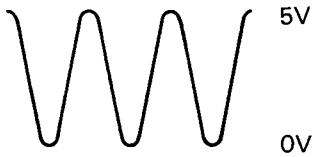
㊴ Play ReW
Timer Rec
Timer play



㊵ Stop Pause

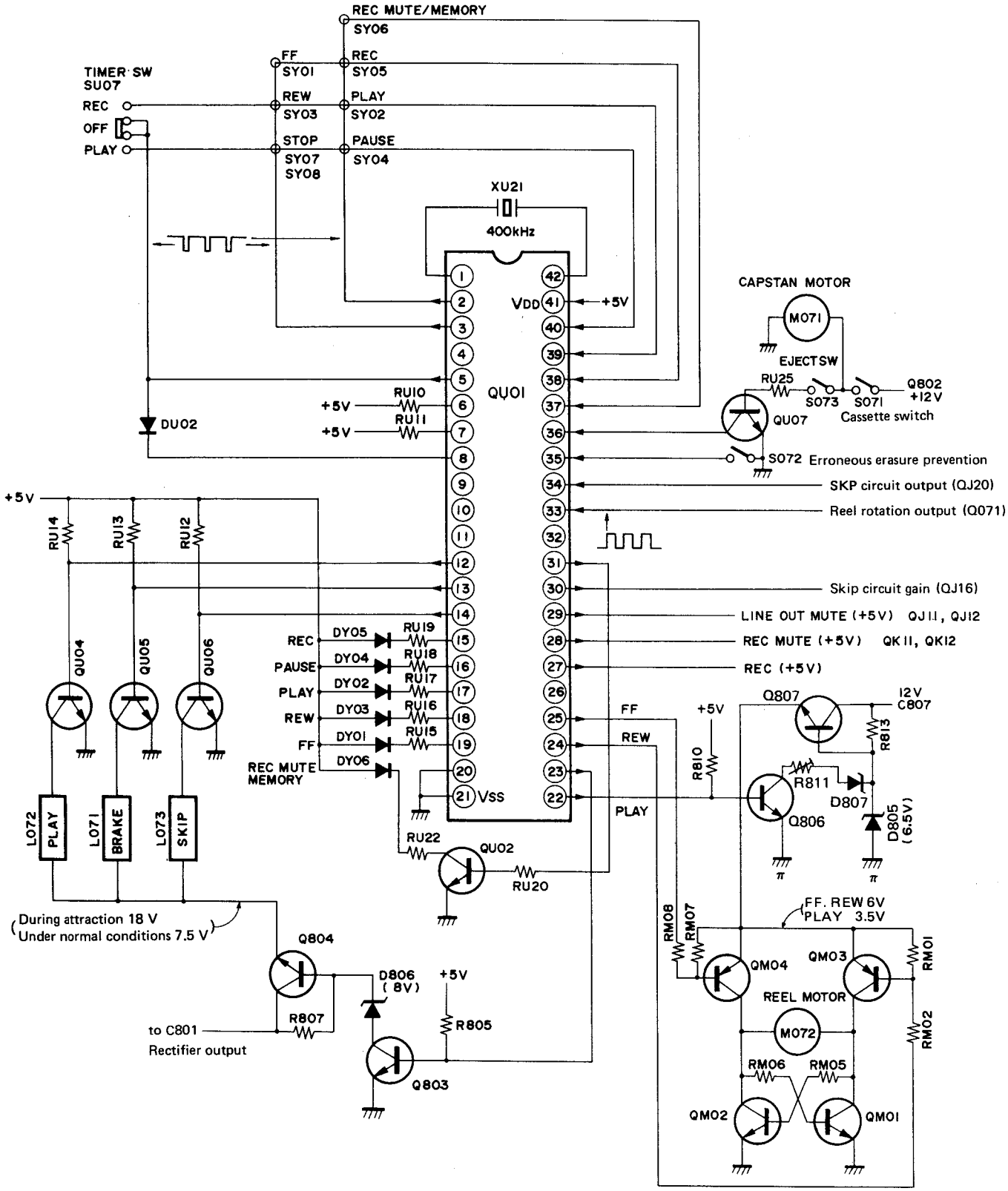
㊶ VDD

㊷



f:400KHz

4.10 MECHANISM CONTROL CIRCUIT (Figure 1)

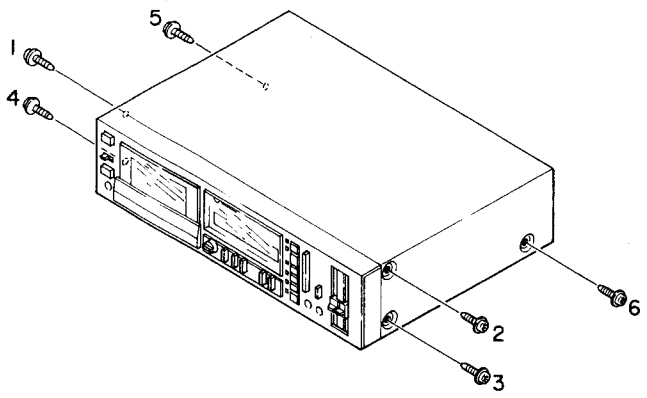


Pull-up resistors and other components are not shown

5. DISASSEMBLY

5.1 REMOVING THE TOP COVER

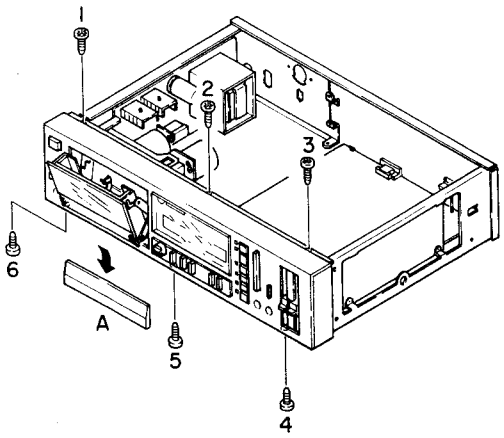
Remove the six screws 1 ~ 6.



5.2 REMOVING THE FRONT PANEL

Remove escutcheon A.

Remove six screws 1 ~ 6.



5.3 REMOVING THE MECHANISM

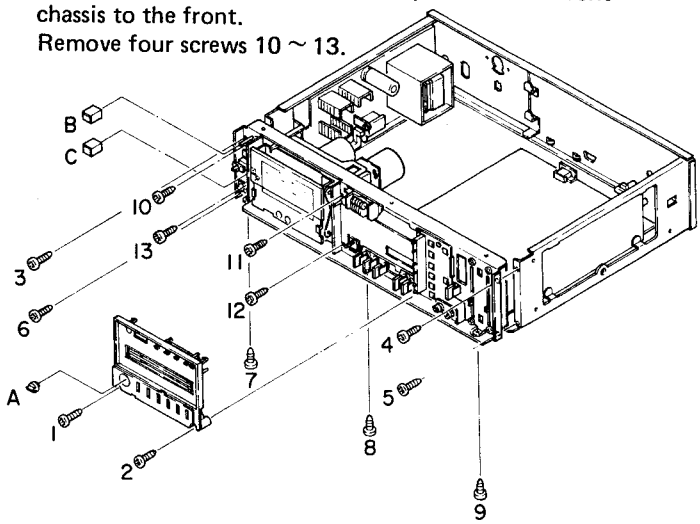
Remove knob A.

Remove two screws 1 ~ 2 and pull out the holder to the front.

Remove buttons B and C.

Remove seven screws 3 ~ 9 and pull out the front chassis to the front.

Remove four screws 10 ~ 13.



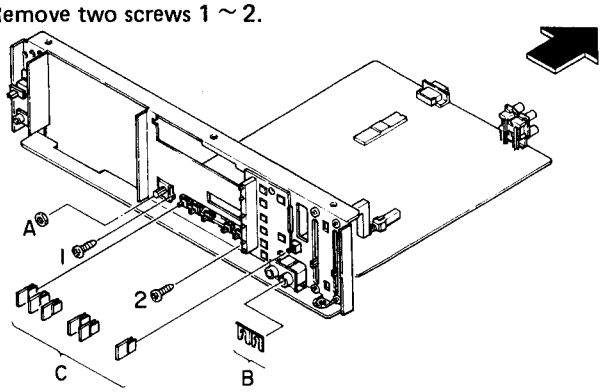
5.4 REMOVING THE P.W.BOARD

Remove nut A.

Remove stopper B.

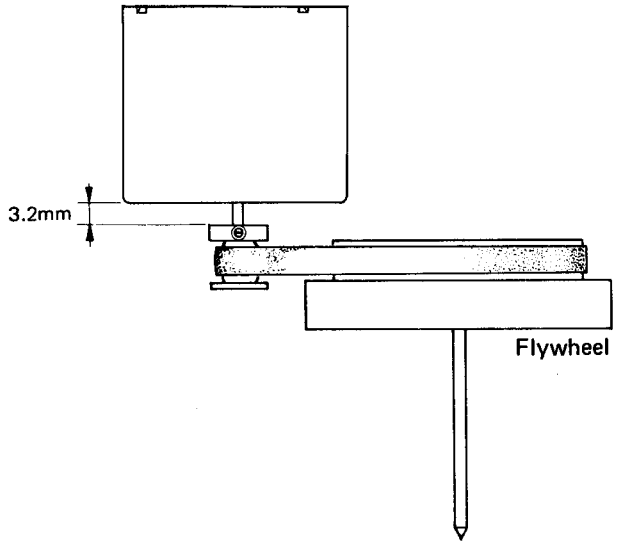
Remove button C.

Remove two screws 1 ~ 2.



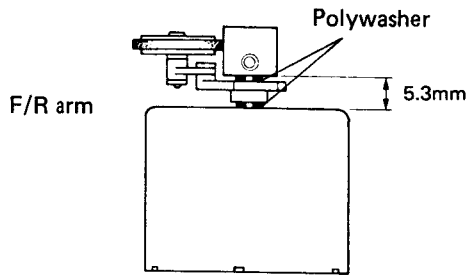
6. MECHANICAL ADJUSTMENT

6.1 MAIN MOTOR PULLEY POSITION



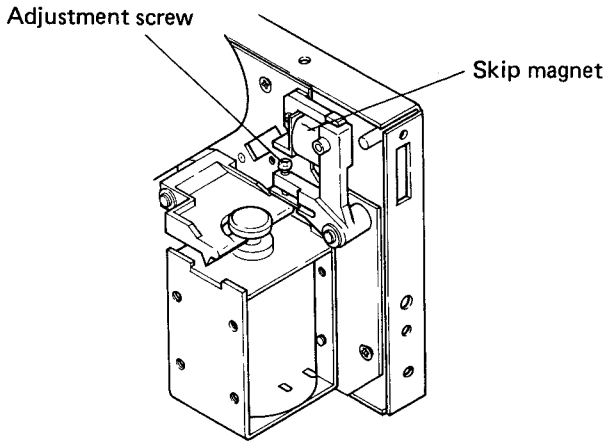
After installing the motor pulley, install the belt between the flywheel and the pulley. Adjust the position of the pulley so that when the flywheel is turned two or three rotations, the belt is positioned at approximately the center of the flywheel. Note that the gap between the motor and the pulley is about 3.2 mm.

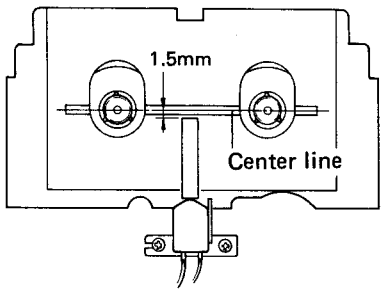
6.2 F/R Motor Pulley Position



Insert the polywasher 0.5t, the F/R arm and then the polywasher 0.5t into the F/R motor. Install the pulley by attaching it firmly.
After installing the pulley, make sure that the F/R arm can rotate easily and smoothly.
Note that the gap between the motor and the pulley is approximately 5.3 mm.

6.3 Adjustment of the Head Position during CUE/REC

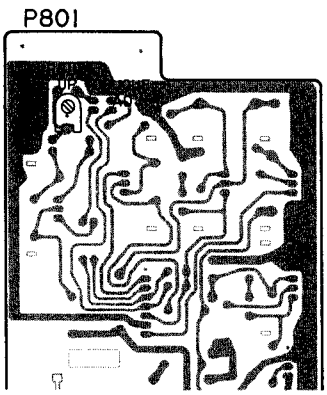




Set the operation of the mechanism to the CUE/SET mode and adjust the position of the head using the M300 tool by turning the adjustment screw so that the head is located in a position 1.5 mm below the cente line.

6.4 Play Take-up Torque

Adjust the semi-fixed resistor R811 so as to give a torque having a value in the range 35 to 50 gcm.



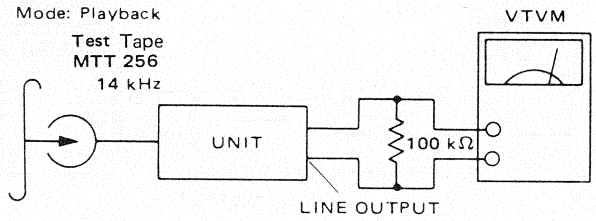
7. ELECTRICAL ADJUSTMENTS

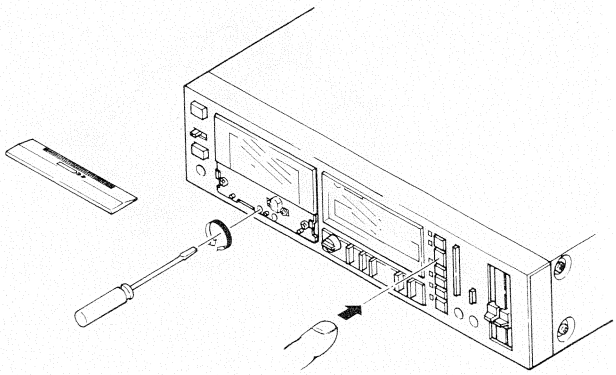
Precautions before Adjustment

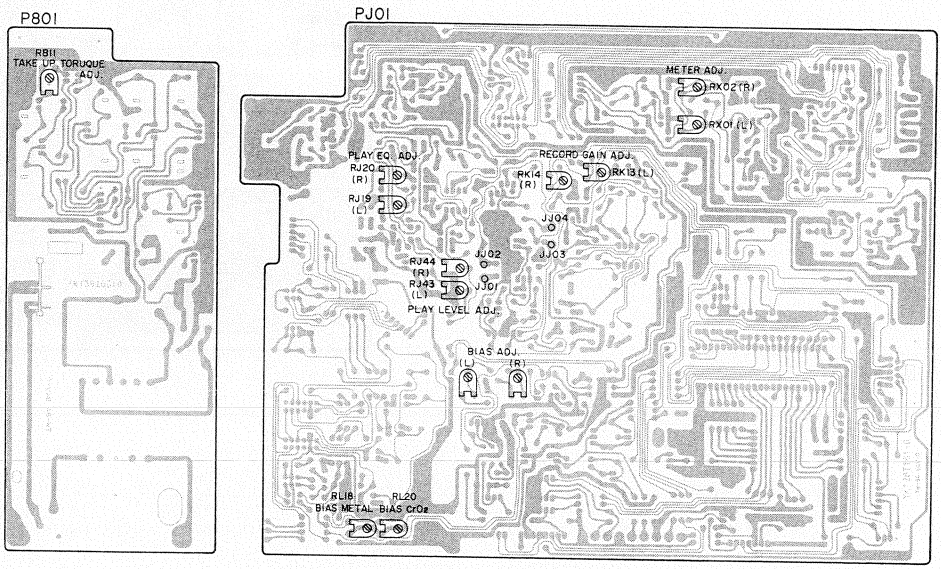
1. Before playing the test tape back, thoroughly demagnetize the heads, capstan and similar metal parts using an eraser as the test tape-recorded tone is easily erased.
2. Do not place the test tape on any measuring instrument.
3. Do not put the test tape near a place where the eraser is used.
4. Method of Demagnetization: – Turn the eraser power switch on at a remote position far away from the heads. Bring the eraser close to the heads, capstan and other parts to be demagnetized, and move it up and down four or five times to demagnetize. Slowly separate the eraser far away from the parts, and turn the power switch off.
5. Do not use any magnetized adjusting tool. When using it, demagnetize it from time to time in the course of each adjustment.
6. Do not turn semi-fixed resistor more than needed.
7. Do not apply locking bond excessively.

7.1 HEAD AZIMUTH ADJUSTMENT

1. Remove the cassette door lid and the escutcheon.
2. Set the TAPE SELECT switch to the NORM position.
3. Play the 14 kHz signal of the test tape MTT256 back. Adjust the head azimuth adjusting screw for maximum VTVM reading.
4. If the peak output reads of the right and left channels are different, set the screws to obtain the mechanical center between the peaks.
5. After adjustment, repeat the playback and stop setting a few times to make certain of no head azimuth deviation. Then, lock the screws with bond.





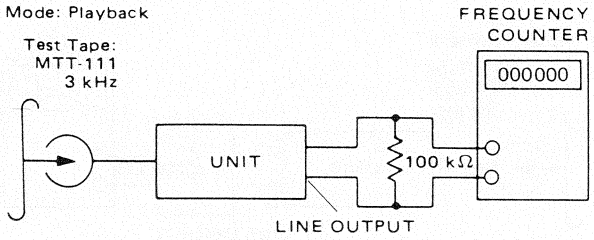


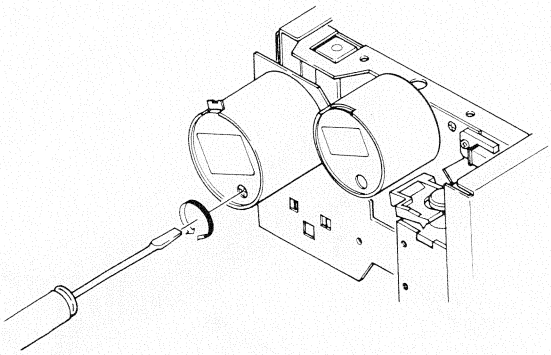
7.2 TAPE SPEED ADJUSTMENT

Play the 3 kHz signal of the test tape MTT-111 back. Adjust the tape speed adjusting resistor inside the motor (M001) for 2990 to 3010 Hz counter indication.

NOTES:

1. **If a strong shock or similar vibration is applied to the deck after adjustment, make certain that the measured tape speed had not changed.**
2. **Be careful that the frequency counter may indicate a wrong value because of too low counter input level.**
3. **Before adjustment, allow for 30 seconds or more after depressing of the PLAY button.**



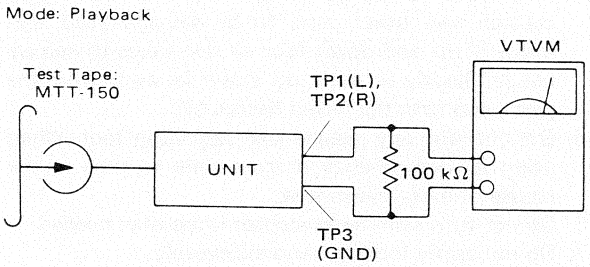


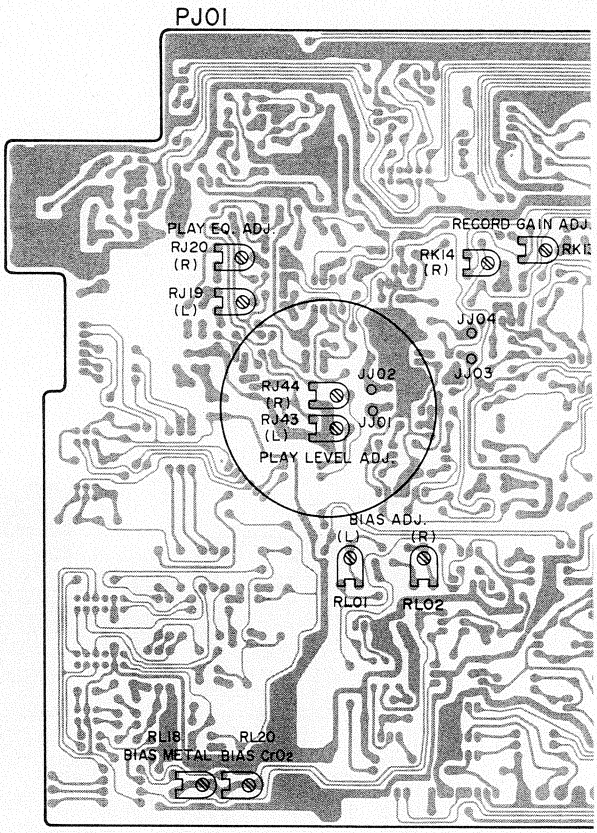
7.3 PLAYBACK OUTPUT LEVEL ADJUSTMENT

1. Set the TAPE SELECT switch to the NORM position
2. Play the test tape MTT-150 back. Adjust RJ43(L) and RJ44(R) (50 kΩ each) for 580 mV playback output level at the test points TP1(L) or, TP2(B) and TP3(GND).

NOTES:

1. **Proceed both for the right and left channels in the same manner.**
2. **This adjustment should be performed after the one for the "Playback Equalizer Adjustment".**



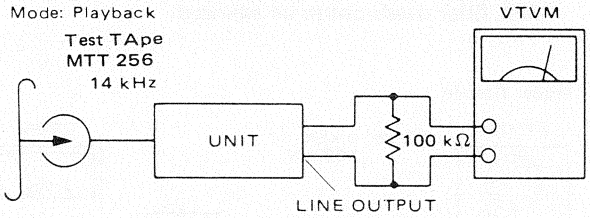


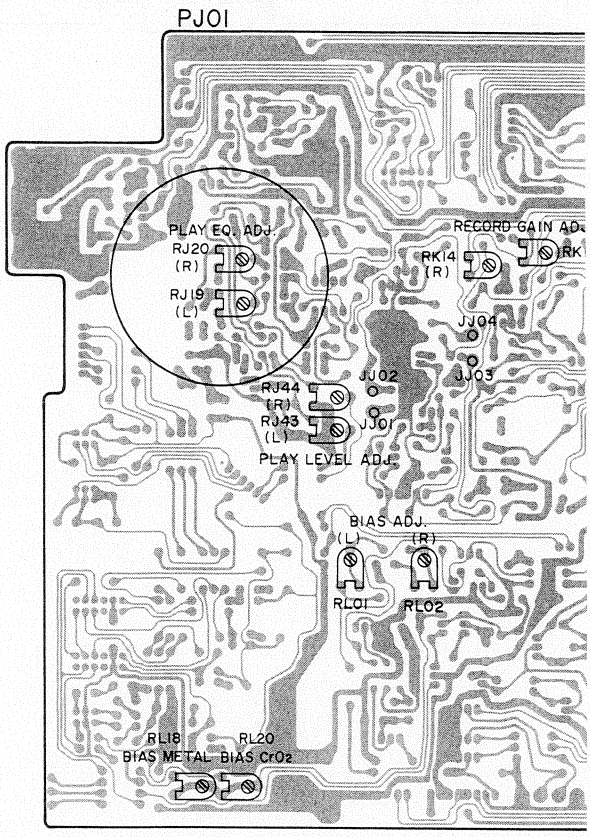
7.4 PLAYBACK EQUALIZER ADJUSTMENT

1. SELECT the NORM position of the TAPE SELECT switch.
2. Play the 315 Hz signal of the test tape MTT-256 back. Let the 315 Hz signal level be reference as 0 dB.
3. Play the 12.5 kHz signal of the test tape MTT-256 back. Adjust RJ19(L) and RJ20(R) (5 kΩ each) for 12.5 kHz frequency response of 0 to -1 dB in reference to the 315 Hz signal level.

NOTES:

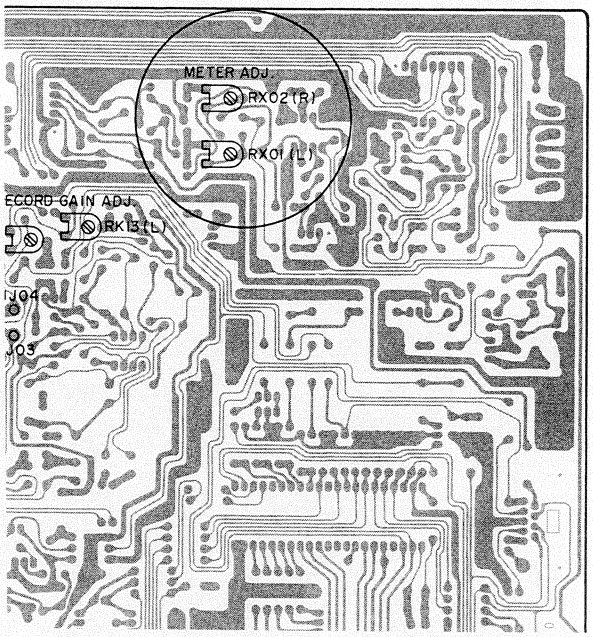
1. **Proceed both for the right and left channels in the same manner.**
2. **Note that clockwise turning of RJ19(L) and RJ20(R) will increase the 14 kHz signal output level.**





7.5 LEVEL PEAK LEVEL METER ADJUSTMENT

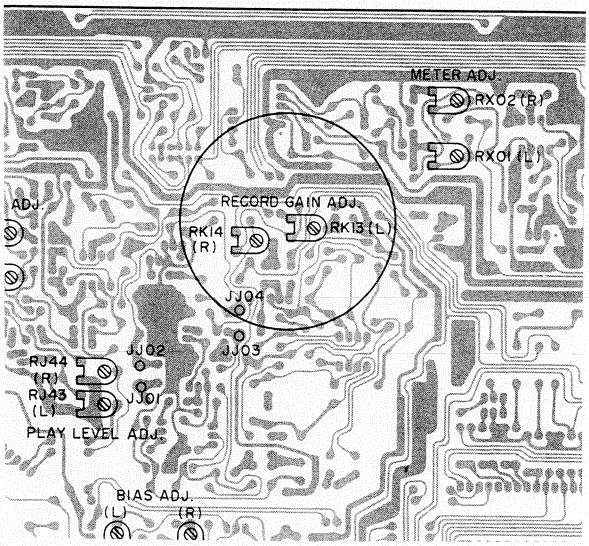
1. Follow the same procedures as in the "Playback Output Level Adjustment" section.
2. Adjust RX01(L) and RX02(R) (20 kΩ each) for DC (+0dB) LED PEAK LEVEL meter reading.



7.6 RECORD-PLAYBACK LEVEL ADJUSTMENT

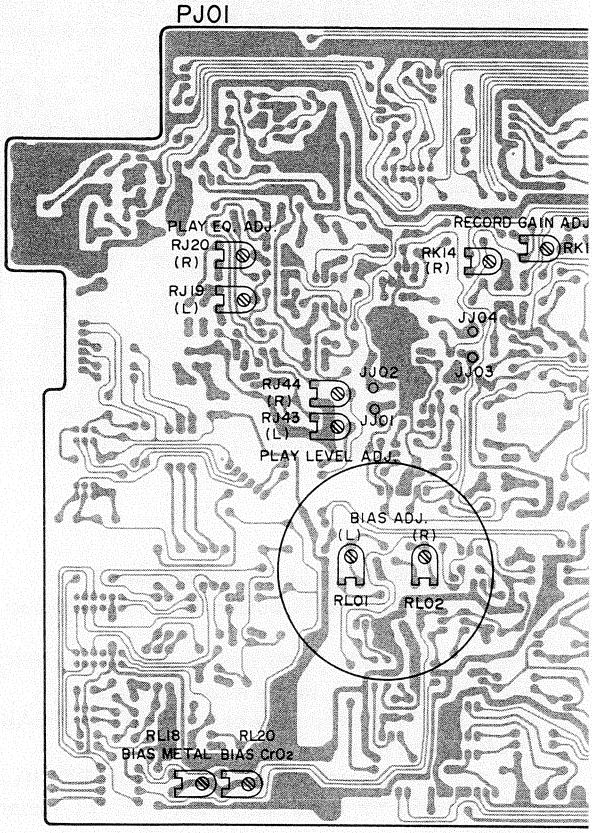
1. Set the TAPE SELECT button to the NROM position.
2. Connect the 1 kHz, -60 dBV signal to the MIC jack. Set up the deck to the recording state.
3. Adjust the REC Level control for 0 dB LED PEAK LEVEL meter reading.
4. Play the recorder portion back and adjust RK13(L) and RK14(R) for 0 dB LED PEAK LEVEL meter reading.

Proceed both for the right and left channels in the same manner.



7.7 RECORDING BIAS CURRENT ADJUSTMENT

1. Set the TAPE SELECT switch to the NORM position.
2. Set up the deck to the recording state.
3. Adjust RL01(L) and RL02(R) for 4 mV reading (bias currents are 400 μA) at the test points TP1(L) and TP2(L GND), or PT3(R) and TP4(R GND).
4. Make sure that the following values are obtained in each position except NORM.
   CrO_2: 5.5 mV(RL20), METAL: 9 mV(RL18)

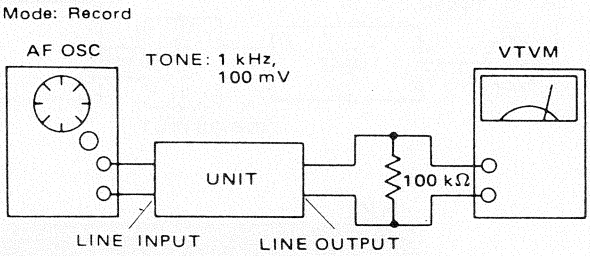


7.8 MPX FILTER ADJUSTMENT

1. Set the TAPE SELECT switch to the NORM position.
2. Connect the 1 kHz, 100 mV input signal to the LINE INPUT cord.
3. Set up the deck to the recording state.
4. Adjust the REC LEVEL control for 0 dB meter reading.
5. Adjust the line output level for 0 dB, and turn the DOLBY NR switch to the ON position.
6. Turn the input signal to the 19 kHz.
7. Adjust L601(L) and L602(R) for minimum output level.

NOTES:

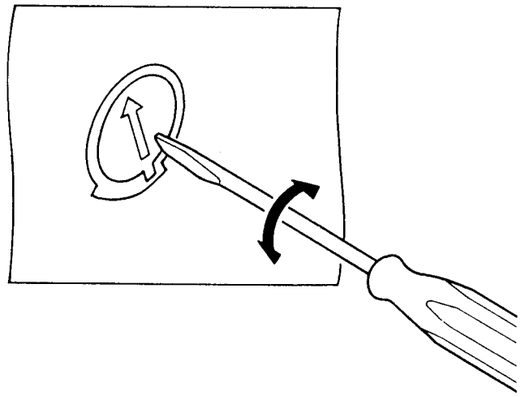
1. **Proceed both for the right and left channels in the same manner.**
2. **If the filter characteristic is better than 30 dB, the MPX filter needs not to be adjusted.**

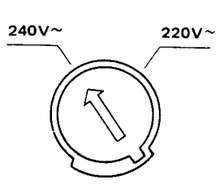


8. VOLTAGE CONVERSION

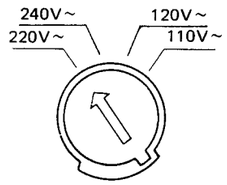
To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSMEBLE THE VOLTAGE SELECTOR ABSOLUTELY.





(N. A. T.) VERSION



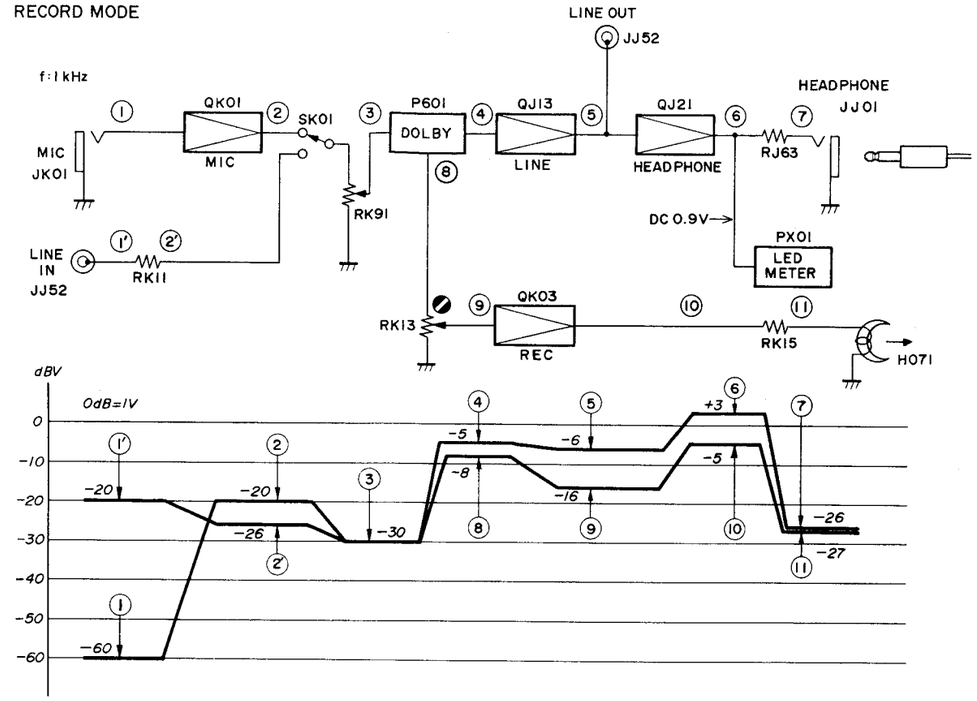
(E) VERSION

NOTE ON SAFETY:
SYMBOL ⚠ FIRE OR ELECTRICAL SHOCK HAZARD. ONLY ORIGINAL PARTS SHOULD BE USED TO REPLACE ANY PART MARKED WITH SYMBOL ⚠. ANY OTHER COMPONENT SUBSTITUTION (OTHER THAN ORIGINAL TYPE), MAY INCREASE RISK OF FIRE OR ELECTRICAL SHOCK HAZARD.

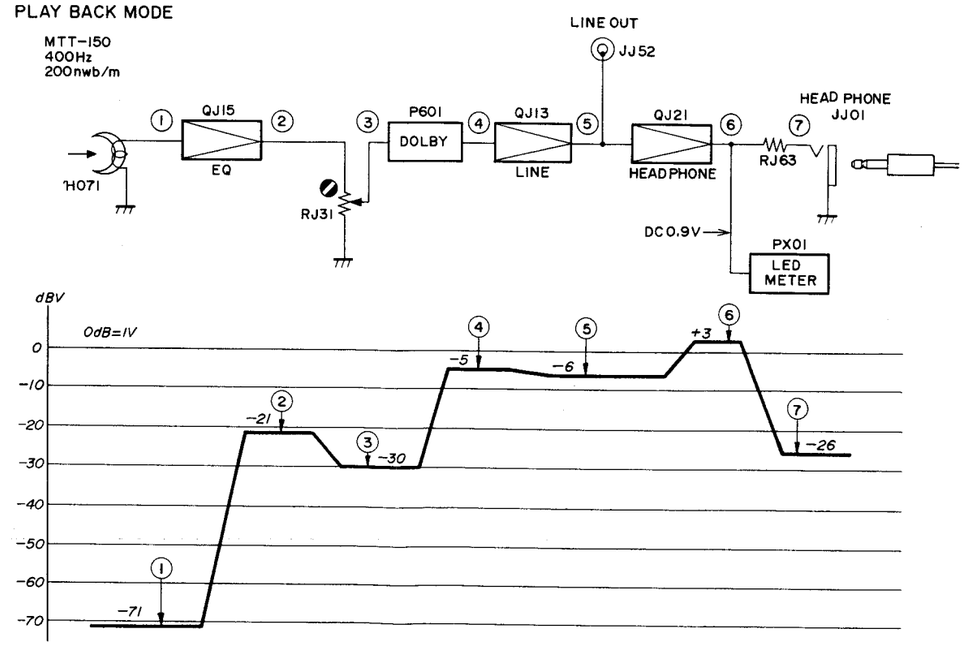
9. DIAGRAMS

9.1 LEVEL DIAGRAM

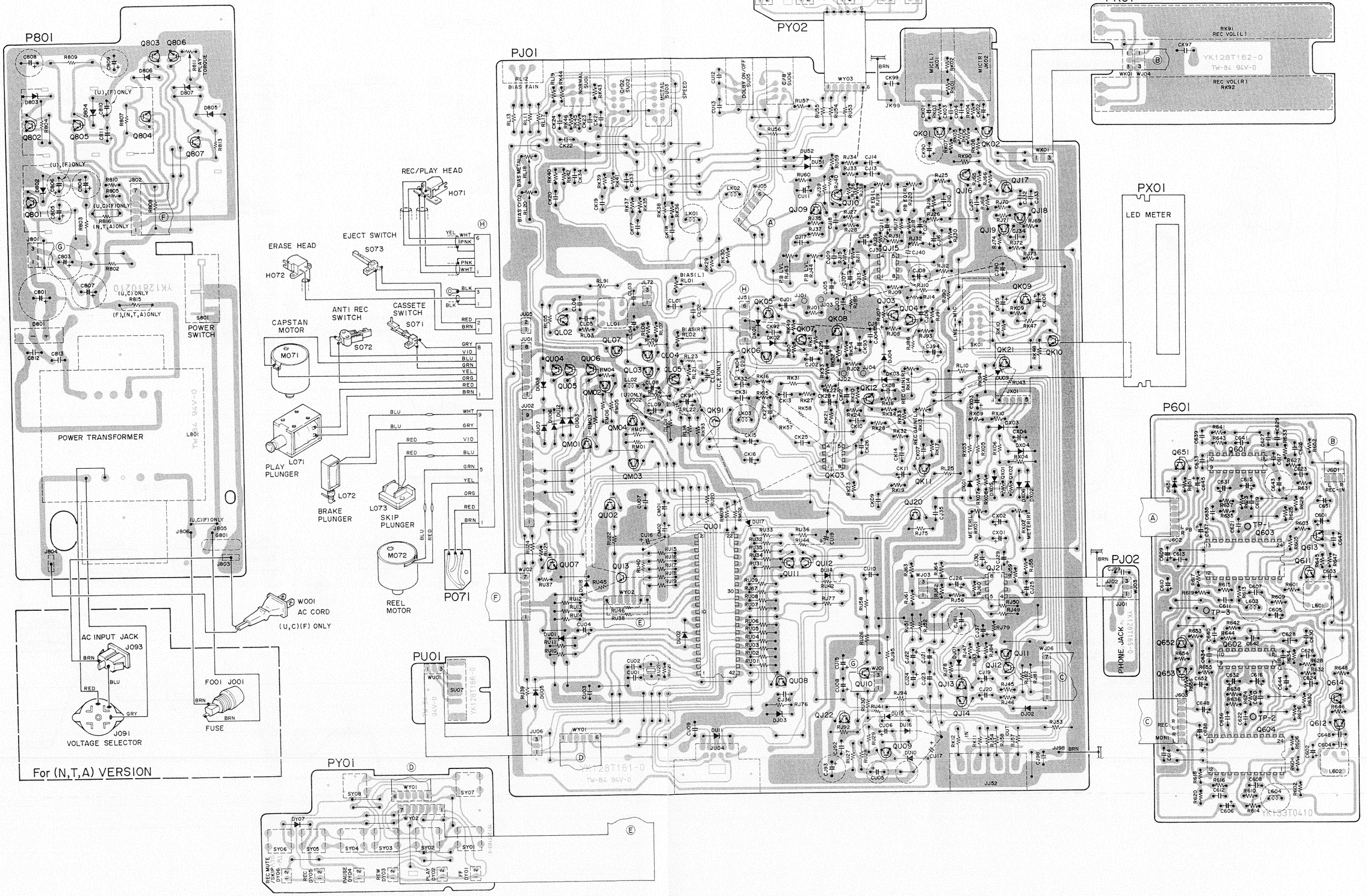
RECORD MODE



PLAY BACK MODE

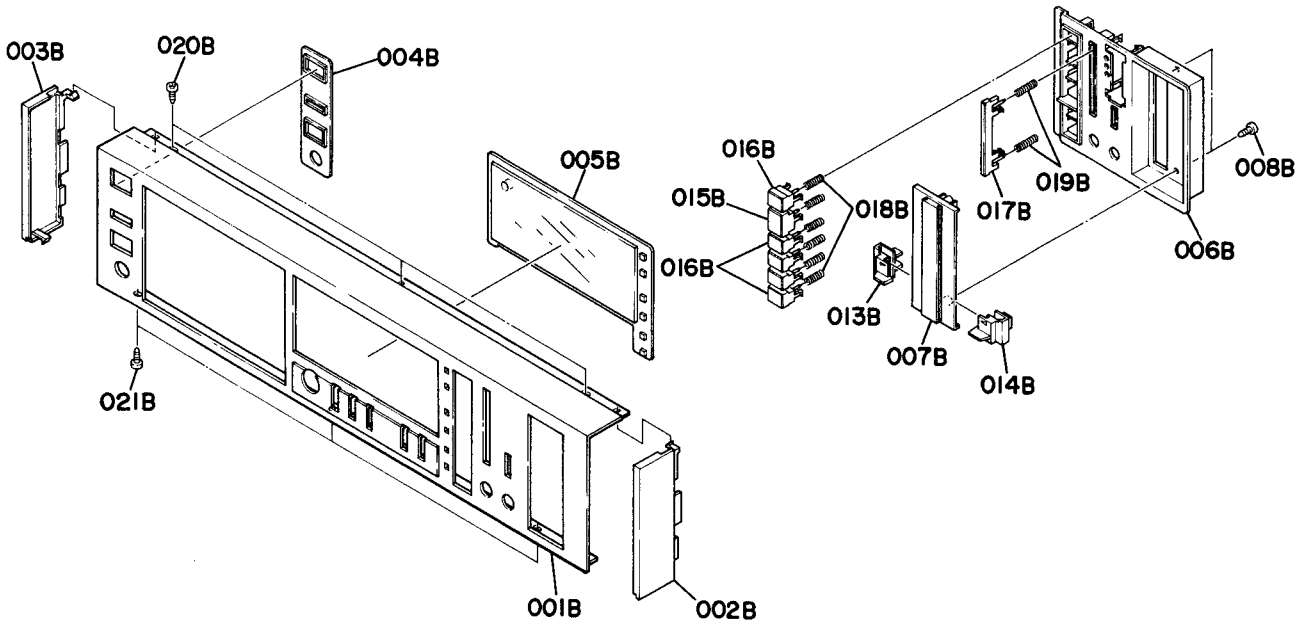


9.2 WIRING DIAGRAMS



10. EXPLODED VIEWS AND PARTS LIST

10.1 [C01-99] FRONT PANEL

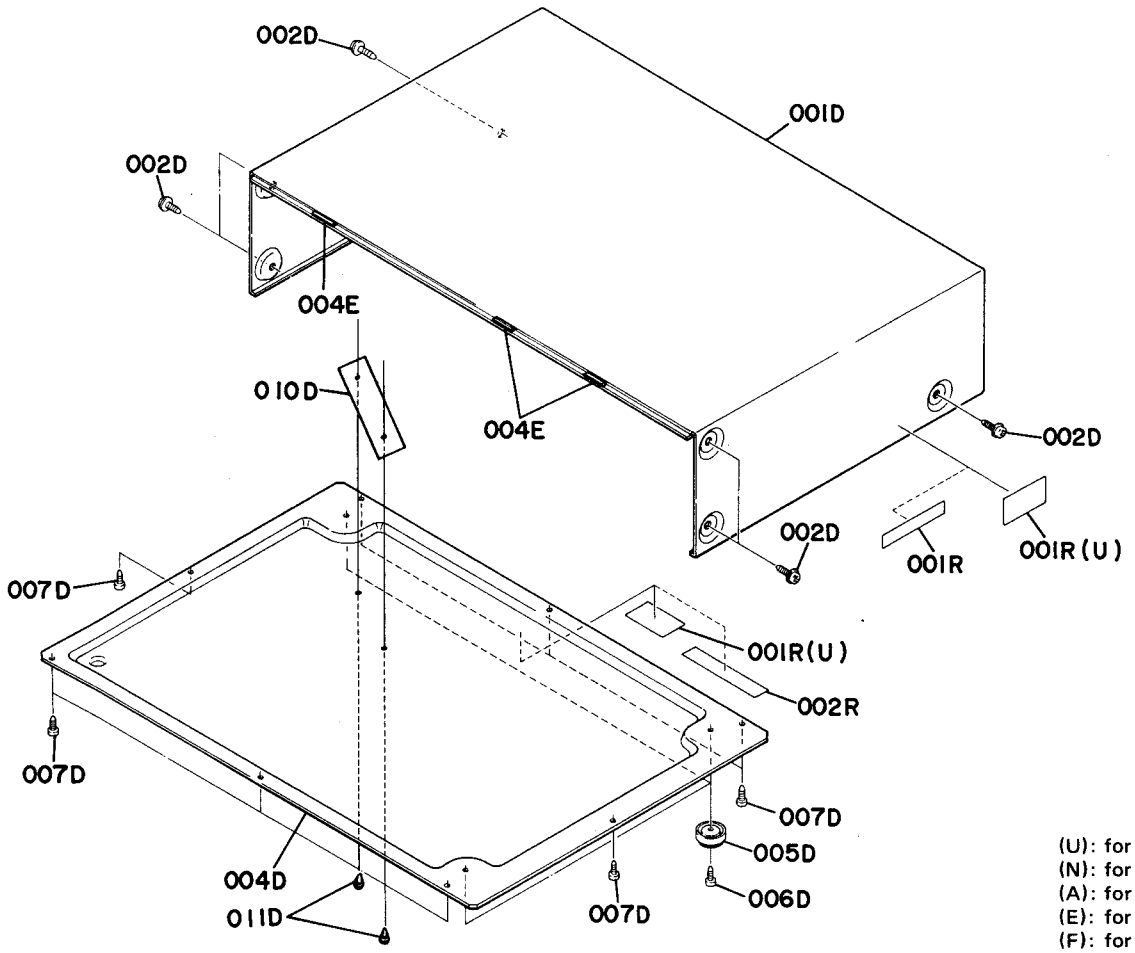


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
A	1	1	1	1	1	128T063400	Front Panel Assembly
001B	1	1	1	1	1	128T063010	Escutcheon Front Panel
002B	1	1	1	1	1	229H067010	Cap (Right)
003B	1	1	1	1	1	229H067020	Cap (Left)
004B	1	1	1	1	1	128T259010	Bushing Power SW.
005B	1	1	1	1	1	128T158030	Window
006B	1	1	1	1	1	128T259020	Bushing Operation
007B	1	1	1	1	1	129T265020	Indicator Rec Level B3 x 5
008B	2	2	2	2	2	51280308B0	B.H. Tapped Screw
013B	1	1	1	1	1	129T154010	Knob Rec (Left)
014B	1	1	1	1	1	129T154020	Knob Rec (Right)
015B	1	1	1	1	1	416H154020	Knob Play
016B	5	5	5	5	5	420H154010	Knob FF/Rew/Pause/Rec Mute
017B	1	1	1	1	1	128T154030	Knob Stop
018B	6	6	6	6	6	416H115010	Spring Mecha Operation
019B	2	2	2	2	2	416H115020	Spring Stop Operation

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
020B	3	3	3	3	3	51280306B0	B.H. Tapped Screw B3 x 6
021B	3	3	3	3	3	51280306B0	B.H. Tapped Screw B3 x 6

10.2 [C02-99] LID (TOP & BOTTOM COVER)

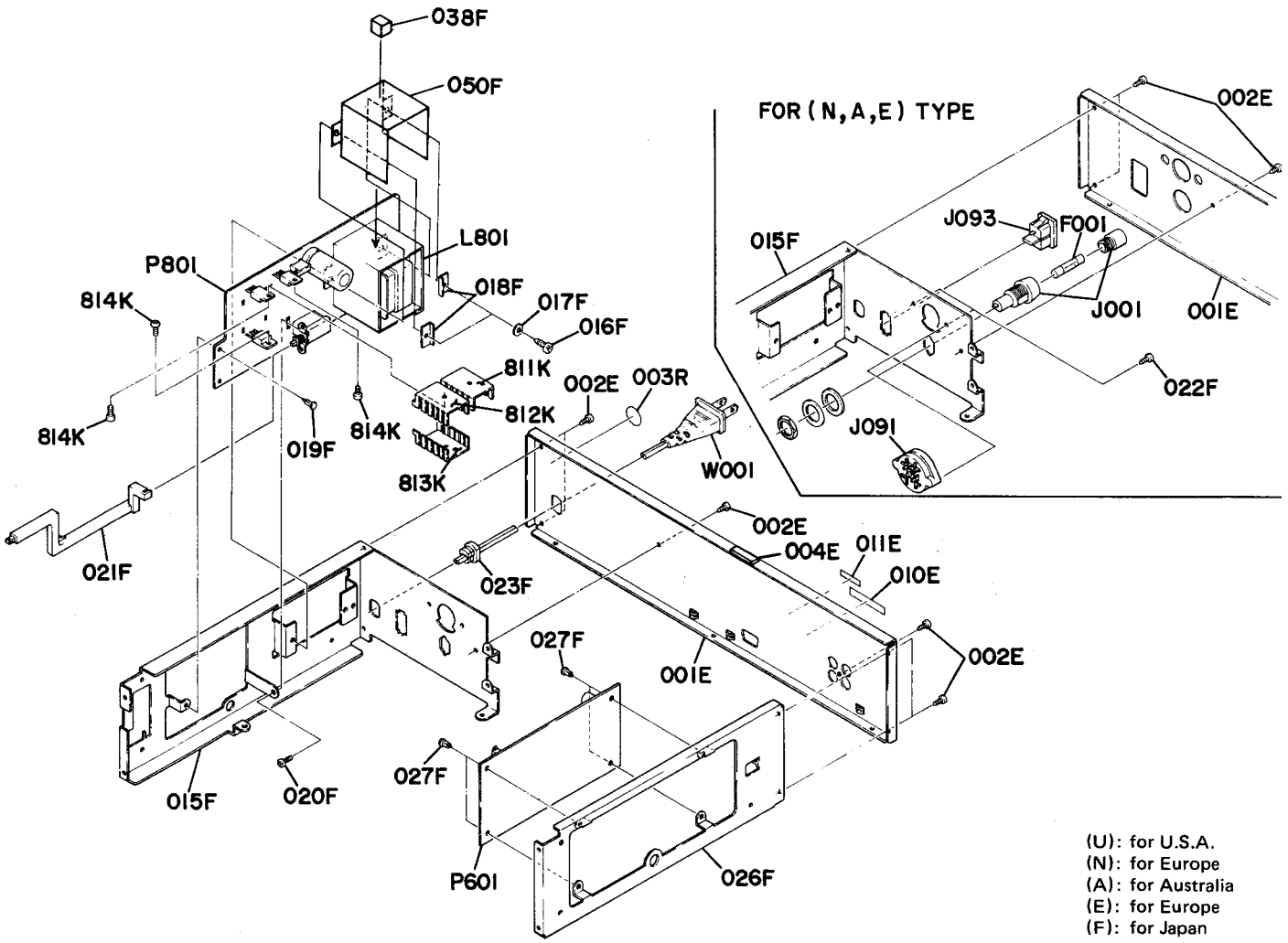


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
001D	1	1	1	1	1	128T257020	Lid, Top Cover
002D	6					5126040820	B.T. Screw B4 x 8
002D		6	6	6	6	51260408U0	B.T. Screw B4 x 8
004D	1	1	1	1	1	128T257010	Lid, Bottom Cover
005D	3	3	3	3	3	416H057010	Leg
006D	3	3	3	3	3	51280408B0	B.H. Tapped Screw B4 x 8
007D	8	8	8	8	8	51280308B0	B.H. Tapped Screw B3 x 8
004E	3	3	3	3	3	2965118010	Spacer
010D	1	1	1	1	1	136T109010	Shield
011D	2	2	2	2	2	2276005050	Clamper

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
001R	2					117H861010	Label
001R		1	1	1		2932861110	Label
002R		1	1	1		2578861010	Label

10.3 [C03-99] REAR PANEL

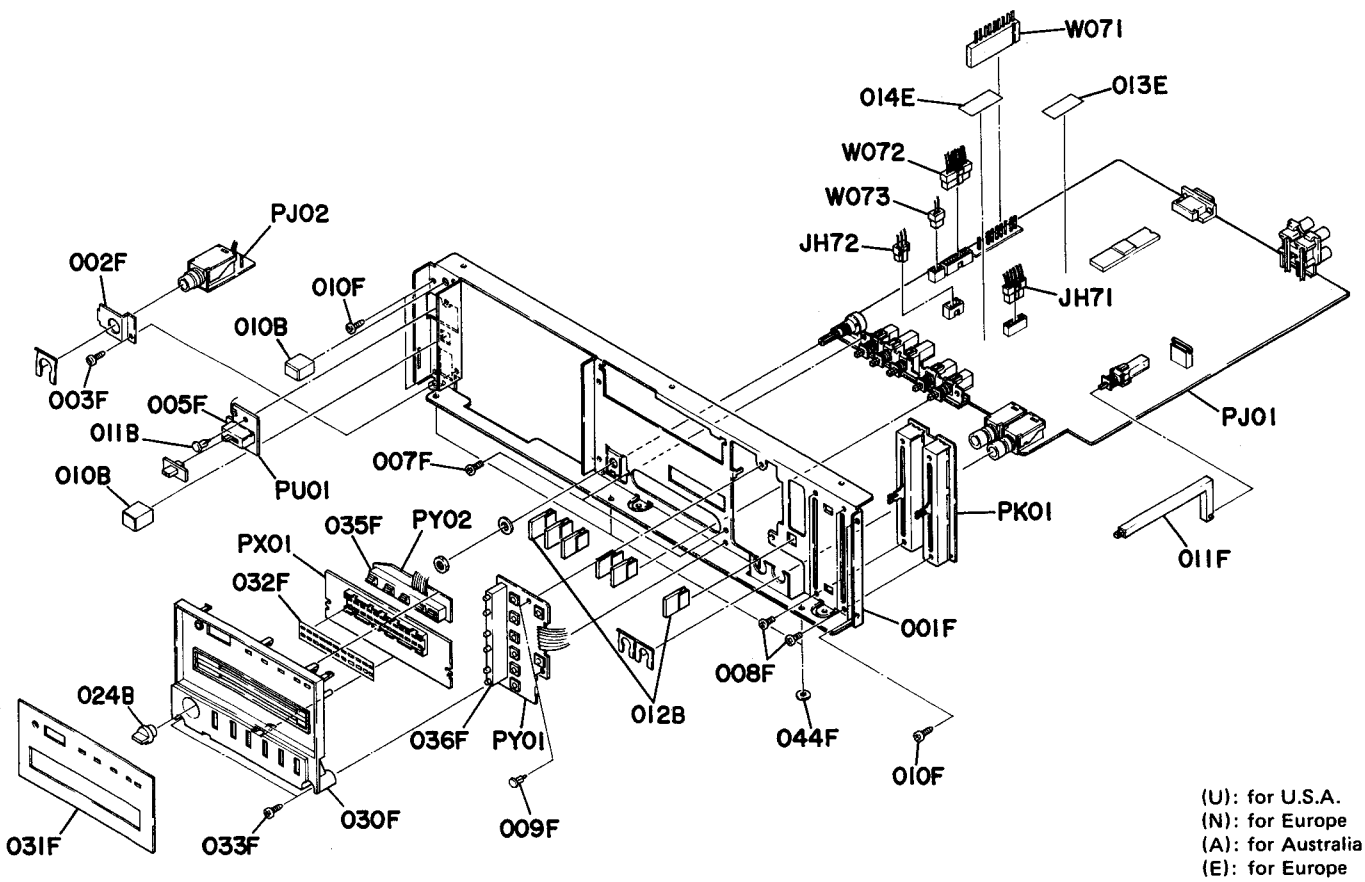


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
015F				1		128T160090	Bracket, Power Supply
015F	1	1	1		1	128T160020	Bracket, Power Supply
016F	2	2	2	2	2	5128041080	B.H. Tapped Screw B4 x 10
017F	2	2	2	2	2	54040402N0	Spring Washer
018F	2	2	2	2	2	4265005010	Clamper
019F	1	1	1	1	1	2276005050	Clamper
020F	1	1	1	1	1	51100306A9	B.H.M. Screw B3 x 6
021F	1	1	1	1	1	128T121010	Link, Power Switch
022F		2	2	2		5128031080	B.H. Tapped Screw B3 x 10
023F	1				1	1455259030	Bushing
026F	1	1	1	1	1	128T160030	Bracket, Dolby
027F	4	4	4	4	4	2276005050	Clamper
001E				1		128T160240	Bracket, Rear Panel
001E	1					128T160230	Bracket, Rear Panel
001E		1	1			128T160210	Bracket, Rear Panel
001E					1	128T160220	Bracket, Rear Panel
002E	6	6	6	6	6	5128030880	B.H. Tapped Screw B3 x 8
010E	1	1	1	1	1	2112265010	Indicator
011E		1	1	1		4581861010	Label
004E	1	1	1	1	1	2965118010	Spacer
050F	1	1	1		1	128T109020	Shield
038F	1	1	1		1	3435056042	Buffer

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
811K	1	1	1	1	1	202H267030	Heatsink
812K	1	1	1	1	1	202H267030	Heatsink
813K	1	1	1	1	1	202H267030	Heatsink
814K	3	3	3	3	3	51300306B0	P.H. Tapped Screw P3 x 6
⚠F001				1		FS10030710	Fuse, T500mA
⚠F001		1	1			FS10020800	Fuse, T200mA
⚠J001		1	1	1		YJ08000290	Jack, Fuse Holder
⚠J091		1	1			BY05030040	Voltage Selector
⚠J091				1		BY05080040	Voltage Selector
⚠J093		1	1	1		YP04000580	Plug, AC Inlet
⚠W001	1					YC01900070	A.C. Power Cord
⚠W001					1	YC01800190	A.C. Power Cord
003R	1					9511101070	Label, UL
⚠L801	1					TS15715060	Power Transf.
⚠L801		1	1			TS15715050	Power Transf.
⚠L801				1		TS15716010	Power Transf.
⚠L801					1	TS15715070	Power Transf.

10.4 [P01-99] FRONT CHASSIS

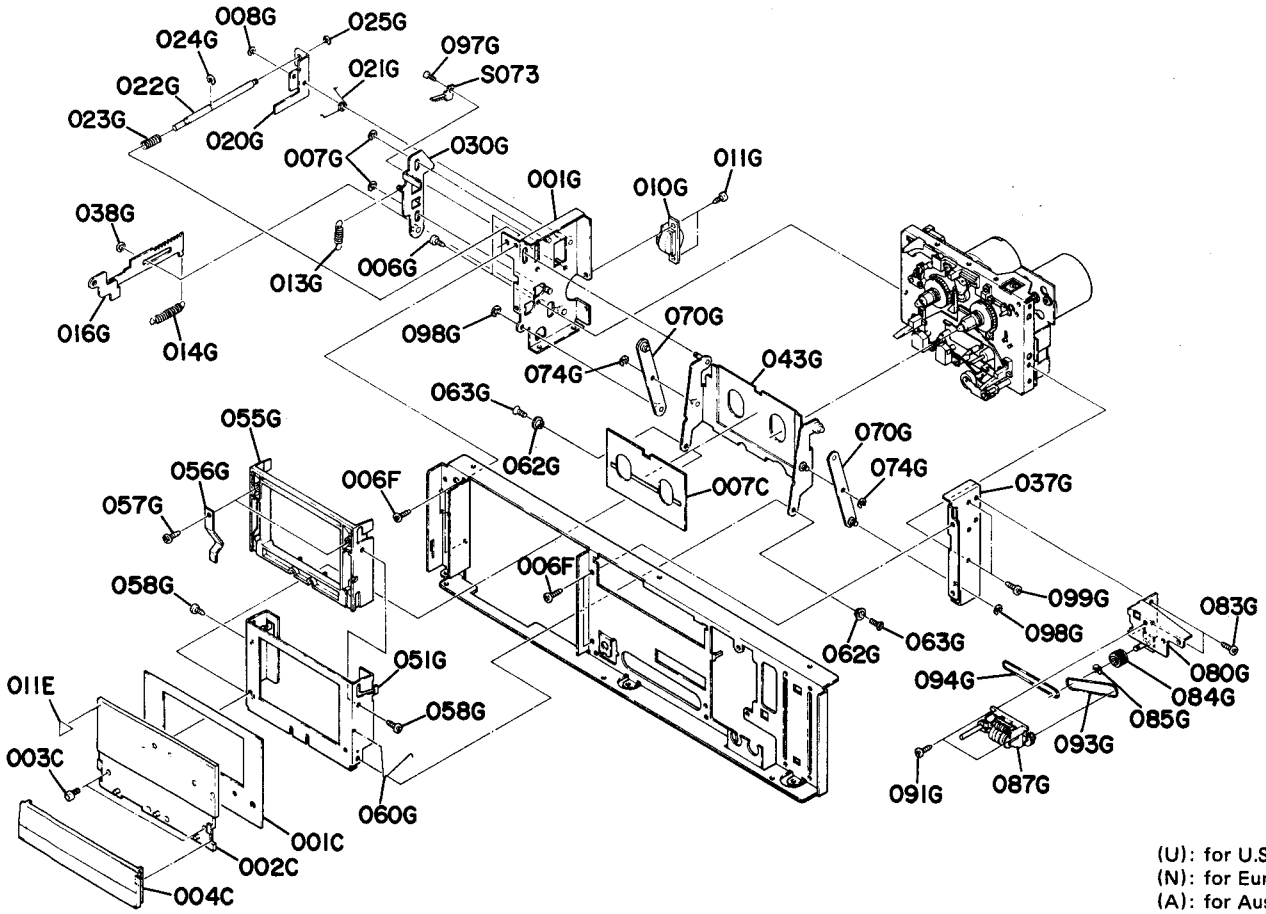


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
010B	2	2	2	2	2	415H154010	Knob, Eject/Power
011B	1	1	1	1	1	128T154020	Knob, Timer
012B	6	6	6	6	6	128T154010	Knob, Mode Switch
024B	1	1	1	1	1	124T154010	Knob, Fine Bias
001F	1	1	1	1	1	128T160010	Bracket, Front Chassis
002F	1	1	1	1	1	128T160080	Bracket, Jack
003F	1	1	1	1	1	51300306B0	P.H. Tapped Screw P3 x 6
005F	1	1	1	1	1	2276005050	Clamper
007F	2	2	2	2	2	51100306A9	B.H.M. Screw B3 x 6
008F	4	4	4	4	4	51100306A9	B.H.M. Screw B3 x 6
009F	2	2	2	2	2	2276005050	Clamper
010F	4	4	4	4	4	51280306B0	B.H. Tapped
011F	1	1	1	1	1	128T121020	Link, Input Select
030F	1	1	1	1	1	128T271020	Holder, LED Meter

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
031F	1	1	1	1	1	128T302010	Dial, LED Meter
032F	1	1	1	1	1	102T303010	Mask
033F	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
035F	1	1	1	1	1	128T271030	Holder
036F	1	1	1	1	1	128T271040	Holder
044F	3	3	3	3	3	59051208P0	Washer
JH71	1	1	1	1	1	YB00400250	Connective Cord, (6P)
JH72	1	1	1	1	1	YB00400260	Connective Cord, (3P)
W071	1	1	1	1	1	YJ06001070	Jack, (9P)
W072	1	1	1	1	1	YB00420070	Connective Cord, (9P)
W073	1	1	1	1	1	YB00260040	Connective Cord, (3P)
PX01	1	1	1	1	1	Hi11203320	LED Meter
013E	1					9510611190	Label
014E	1					2821265050	Label

10.5 [P02-99] ASSOCIATED MECHANISM FOR CASSETTE TAPE OPERATION

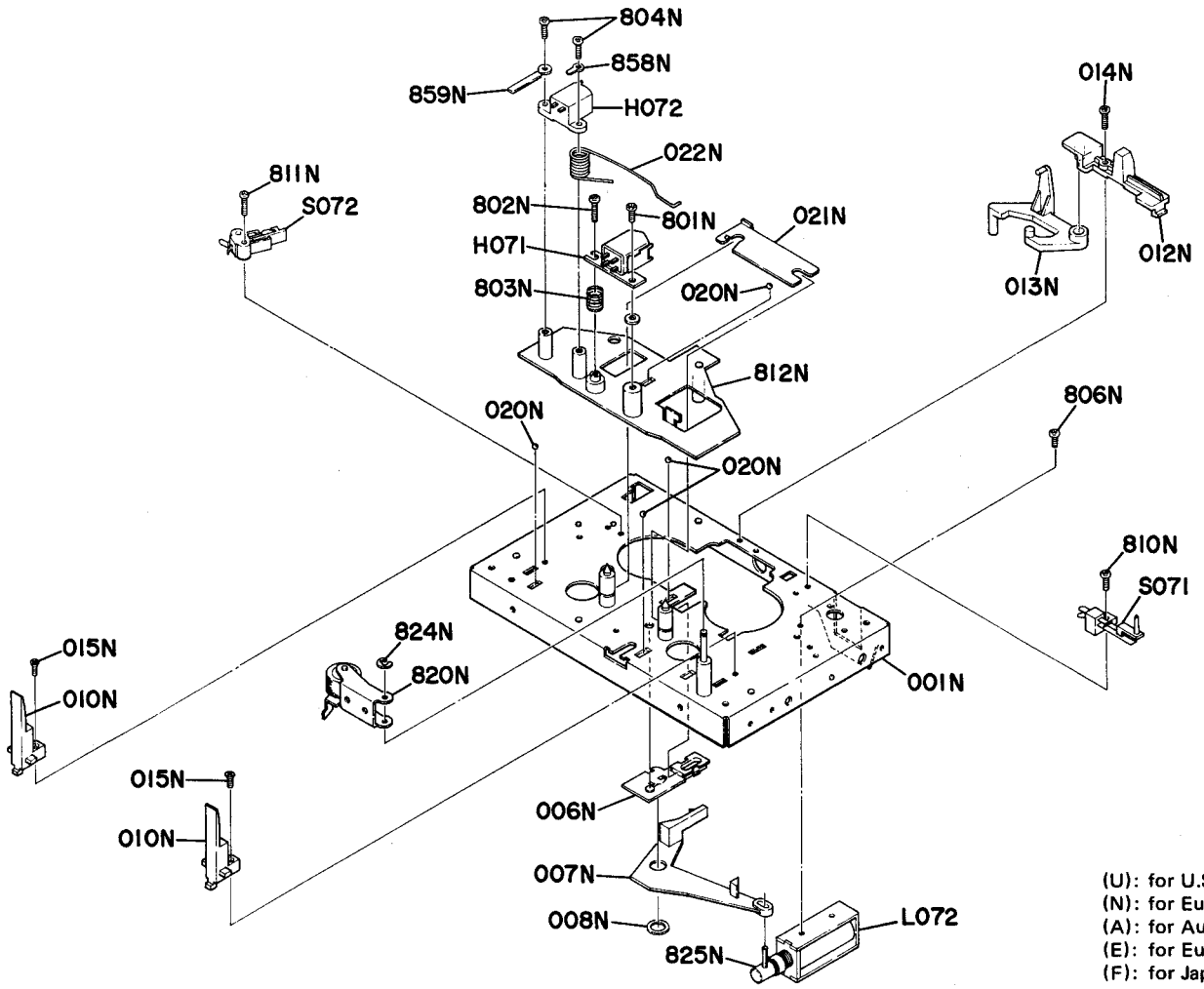


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
001C	1	1	1	1	1	128T063020	Escutcheon, Cassette Lid
002C	1	1	1	1	1	128T158020	Window
003C	2	2	2	2	2	51100306A9	B.H.M. Screw B3 x 6
004C	1	1	1	1	1	128T053010	Cover
007C	1	1	1	1	1	128T274010	Reflector
006F	4	4	4	4	4	51280306B0	B.H. Tapped Screw B3 x 6
001G	1	1	1	1	1	128T160500	Bracket, (L); K
006G	2	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
007G	2	2	2	2	2	64000300R0	RG Ring, E Type
008G	1	1	1	1	1	64000300R0	RG Ring, E Type
010G	1	1	1	1	1	104S263010	Brake, Dumper
011G	2	2	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
013G	1	1	1	1	1	128T115040	Spring, Lock Cam
014G	1	1	1	1	1	128T115020	Spring, Door Open
016G	1	1	1	1	1	128T002010	Arm, Dumper
020G	1	1	1	1	1	128T002030	Arm, Eject
021G	1	1	1	1	1	128T115060	Spring, Eject Arm
022G	1	1	1	1	1	128T254010	Pin, Eject
023G	1	1	1	1	1	128T115050	Spring, Eject Pin
024G	1	1	1	1	1	64002500R0	RG Ring, E Type
025G	1	1	1	1	1	64000200R0	RG Ring, E Type
030G	1	1	1	1	1	128T054500	Cam, Lock; K
037G	1	1	1	1	1	128T160050	Bracket, (R)
038G	1	1	1	1	1	64000300R0	RG Ring, E Type
043G	1	1	1	1	1	128T104500	Retainer, Cassette Case; K
051G	1	1	1	1	1	128T053500	Cover, Cassette Case; K

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
055G	1	1	1	1	1	128T271010	Holder, Cassette
056G	2	2	2	2	2	128T115010	Spring
057G	2	2	2	2	2	51282605B0	B.H. Tapped Screw B2.6 x 5
058G	2	2	2	2	2	51282604U0	B.H. Tapped Screw B2.6 x 4
060G	1	1	1	1	1	128T115030	Spring
062G	2	2	2	2	2	128T055010	Collar
063G	2	2	2	2	2	51042606A0	F.H.M. Screw F2.6 x 6
070G	2	2	2	2	2	128T002500	Arm, Door; K
074G	2	2	2	2	2	64000300R0	RG Ring, E Type
080G	1	1	1	1	1	128T160510	Bracket, Counter; K
083G	2	2	2	2	2	51280308B0	B.H. Tapped screw B3 x 8
084G	1	1	1	1	1	128T262010	Pulley, Counter
085G	1	1	1	1	1	64000200R0	RG Ring, E Type
087G	1	1	1	1	1	129T052600	Counter, K
091G	2	2	2	2	2	51572605B0	P. Taptite Screw P2.6 x 5
093G	1	1	1	1	1	128T264010	Belt
094G	1	1	1	1	1	128T264020	Belt
097G	1	1	1	1	1	51060206S0	P.H.M. Screw P2 x 6
098G	2	2	2	2	2	64000300R0	RG Ring E Type
099G	2	2	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
S073	1	1	1	1	1	SM01010860	Mini Switch Eject
011E	1					113T861010	Label

10.6 [P03-99] PARTS ASSEMBLED ON TOP OF CHASSIS

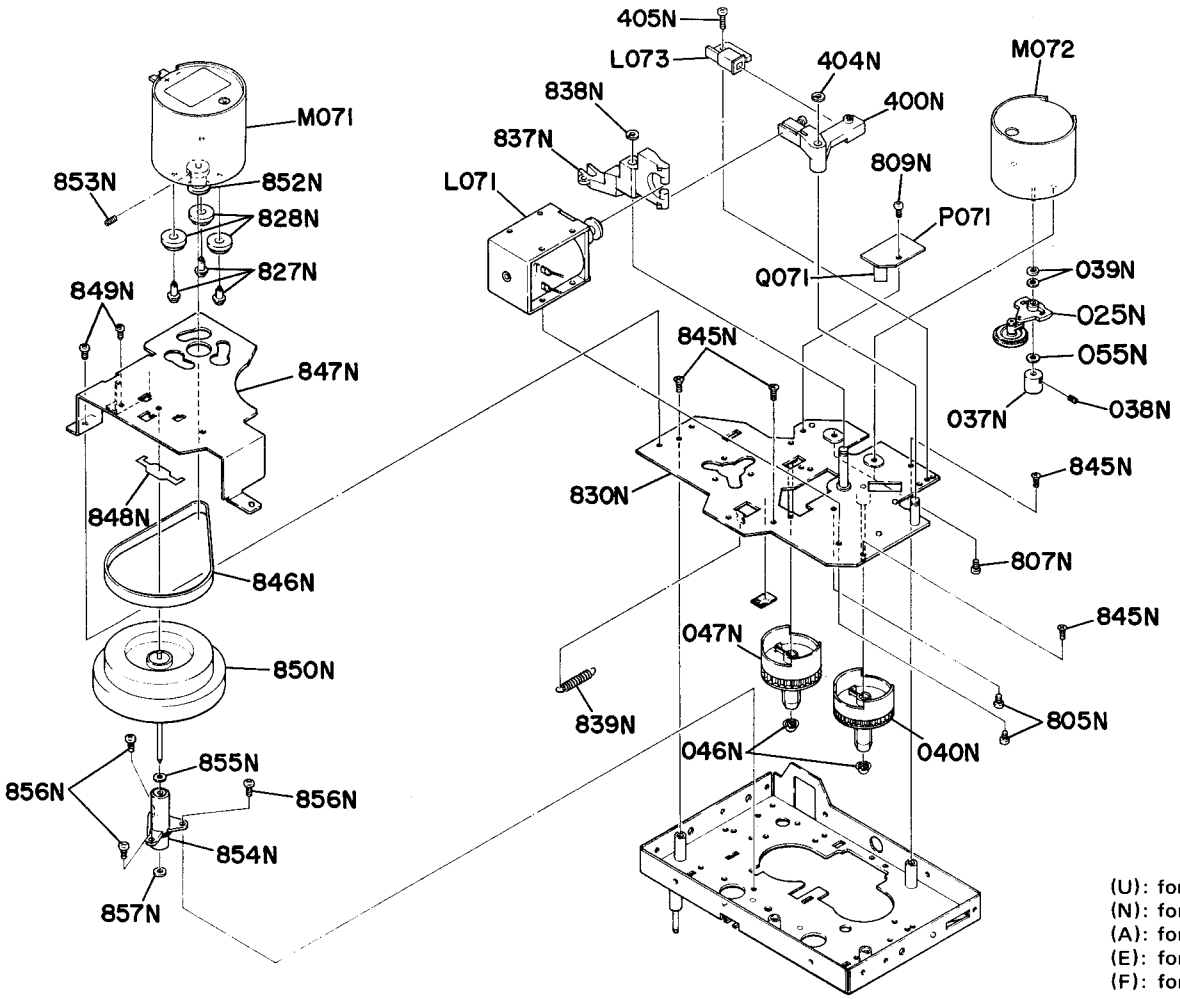


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
001N	1	1	1	1	1	313Y105400	Chassis Assembly, Main
006N	1	1	1	1	1	313Y160010	Bracket, Brake Arm
007N	1	1	1	1	1	313Y002030	Arm, Brake Arm
008N	1	1	1	1	1	59050802G9	Washer
010N	2	2	2	2	2	313Y104020	Rerainer, Cassette Guide
012N	1	1	1	1	1	313Y104030	Rerainer, Cassette Guide
013N	1	1	1	1	1	313Y002050	Arm, Rec Safety
014N	1	1	1	1	1	51062608A0	P.H.M. Screw P2.6 x 8
015N	2	2	2	2	2	51042606A0	F.H.M. Screw F2.6 x 6
020N	4	4	4	4	4	61025010T0	Ball, 2.5φ
021N	1	1	1	1	1	313Y115010	Spring
022N	1	1	1	1	1	313Y115070	Spring, Pinch Roller
801N	1	1	1	1	1	51060206A0	P.H.M. Screw P2 x 6
802N	1	1	1	1	1	51190210A0	P.H.M. Screw P2 x 10
803N	1	1	1	1	1	4380115090	Spring
804N	2	2	2	2	2	51060206A0	P.H.M. Screw P2 x 6
806N	1	1	1	1	1	51062604A0	P.H.M. Screw P2.6 x 4
810N	1	1	1	1	1	51062604A0	P.H.M. Screw P2.6 x 6
811N	1	1	1	1	1	51060208A0	P.H.M. Screw P2 x 8
812N	1	1	1	1	1	313Y105410	Chassis Assembly, Head

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
820N	1	1	1	1	1	313Y002400	Arm Assembly, Pinch Roller
824N	1	1	1	1	1	64002500R0	RG Ring, E Type
825N	1	1	1	1	1	313Y115060	Spring, Brake Solenoid
858N	1	1	1	1	1	62021030W0	Lug.
859N	1	1	1	1	1	4411005020	Clamper
H071	1	1	1	1	1	LH42102030	Head, Rec/Play
H072	1	1	1	1	1	LH31000570	Head, Erase
L072	1	1	1	1	1	ME10440010	Solenoid Coil, Brake
S071	1	1	1	1	1	SM01010740	Mini Switch, Cassette
S072	1	1	1	1	1	SM01010950	Mini Switch, Rec Safty

10.7 [P04-99] PARTS ASSEMBLED ON REVERSE OF CHASSIS

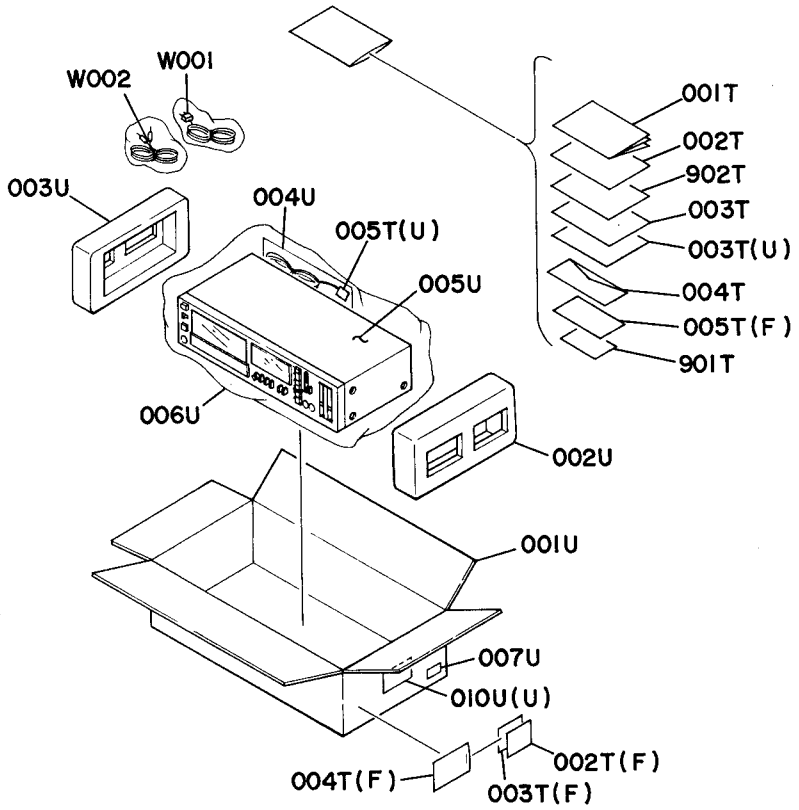


(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
055N	1	1	1	1	1	59020805G9	Washer
025N	1	1	1	1	1	313Y002520	Arm Assembly, F/R
037N	1	1	1	1	1	313Y262020	Pulley, F/R
038N	1	1	1	1	1	51692603Q0	Socket Screw
039N	2	2	2	2	2	59020405G9	Washer
040N	1	1	1	1	1	313Y004510	Supply Reel
046N	2	2	2	2	2	4367067010	Cap, Reel
047N	1	1	1	1	1	313Y004520	Take up Reel
400N	1	1	1	1	1	313Y002410	Arm Assembly, Skip
404N	1	1	1	1	1	307Y114020	Stopper
405N	1	1	1	1	1	51060206A0	P.H.M. Screw P2 x 6
805N	2	2	2	2	2	51060304A9	P.H.M. Screw P3 x 4
807N	2	2	2	2	2	51062603A0	P.H.M. Screw P2.6 x 3
809N	1	1	1	1	1	51572604A0	P. Taptite Screw P2.6 x 4
827N	3	3	3	3	3	4367112150	Shaft
828N	3	3	3	3	3	313Y259010	Bushing
830N	1	1	1	1	1	313Y105420	Chassis Assembly, Sub
837N	1	1	1	1	1	313Y002040	Arm, Play
838N	1	1	1	1	1	307Y114020	Stopper, Play Arm
839N	1	1	1	1	1	313Y115050	Spring
845N	4	4	4	4	4	51042606A0	F.H.M. Screw F2.6 x 6
846N	1	1	1	1	1	313Y264010	Belt, Main
847N	1	1	1	1	1	313Y104010	Retainer, Flywheel
848N	1	1	1	1	1	313Y115080	Spring

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
849N	2	2	2	2	2	51572604A0	P. Taptite Screw P2.6 x 4
850N	1	1	1	1	1	313Y273010	Flywheel
852N	1	1	1	1	1	313Y262010	Pulley
853N	1	1	1	1	1	51690304Q9	Socket Screw, HP
854N	1	1	1	1	1	313Y106010	Bearing, Flywheel
855N	2	2	2	2	2	59264702G9	Washer
856N	3	3	3	3	3	51572606B0	P. Taptite Screw P2.6 x 6
857N	1	1	1	1	1	306Y118010	Spacer
L071	1	1	1	1	1	ME10490020	Solenoid Coil, Play
L073	1	1	1	1	1	ME00140030	Solenoid Coil, Skip
M071	1	1	1	1	1	MM11200170	D.C. Motor, Main
M072	1	1	1	1	1	MM00900010	D.C. Motor, F/R
P071	1	1	1	1	1	YH313Y0210	P.W. Board Photo Unit
Q071	1	1	1	1	1	HW10001030	Photo Unit

10.8 [H01-99] PACKING MATERIALS



(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
001U	1					128T801020	Packing Case
001U		1	1	1		128T801010	Packing Case
001U					1	128T801030	Packing Case
002U	1	1	1	1	1	229H809010	Cushon, (R)
003U	1	1	1	1	1	229H809020	Cushon, (L)
004U	1				1	2918107370	Sheet, Rear Panel
005U	1	1	1	1	1	2918107350	Sheet, Set
006U	1	1	1	1	1	9090909030	Polyethylene Sheet
007U	2					9526019010	Serial No. Card
007U		4		4		9526019060	Serial No. Card
007U			4			9526019030	Serial No. Card
007U					4	9526019040	Serial No. Card
010U	2					9510901020	Label
001T	1					128T851210	Instructions
001T		1	1	1		128T851310	Instructions
001T					1	128T851110	Instructions
002T	1					128T851220	Instructions, Spec
002T		1	1	1		128T851320	Instructions, Spec
002T					1	9631000130	Guarantee Card

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
003T	1					103H854010	Guarantee Card
003T		1		1		128T856010	Circuit Diagram
003T			1			9631000090	Guarantee Card
003T					1	2976851040	Instructions
004T	1					2225813010	Envelope
004T					1	2976813020	Envelope
005T	1					9560000100	Hang Tag
005T					1	9650000030	S. Station Card
901T	1					2818854040	Guarantee Card For Canada
902T	1					9650000050	S. Station Card For Canada
⚠W001		1		1		ZC01805010	A.C. Power Cord
⚠W001			1			ZC02006020	A.C. Power Cord
W002	2	2	2	2	2	ZD01000170	Connective Cord, RCA Pin

10.9 ELECTRICAL PARTS LIST

(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
							P601-DOLBY B-C NR CIRCUIT BOARD
P601	1	1	1	1	1	YK133T0410	P.W. Board, Dolby B-C NR
	1	1	1	1		ZZ133T0410	P.W. Board Assembly
							P601-CAPACITORS
C601	1	1	1	1	1	EA10505030	Elect 1μF 50V
C602	1	1	1	1	1	EA10505030	Elect 1μF 50V
C603	1	1	1	1	1	DF15332300	Film 3300pF ±5%
C604	1	1	1	1	1	DF15332300	Film 3300pF ±5%
C605	1	1	1	1	1	EA10602530	Elect 10μF 25V
C606	1	1	1	1	1	EA10602530	Elect 10μF 25V
C607	1	1	1	1	1	DF15182300	Film 1800pF ±5%
C608	1	1	1	1	1	DF15182300	Film 1800pF ±5%
C609	1	1	1	1	1	EA10505030	Elect 1μF 50V
C610	1	1	1	1	1	EA10505030	Elect 1μF 50V
C611	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
C612	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
C613	1	1	1	1	1	DD15470370	Ceramic 47pF ±5%
C614	1	1	1	1	1	DD15470370	Ceramic 47pF ±5%
C615	1	1	1	1	1	EA10602530	Elect 10μF 25V
C616	1	1	1	1	1	EA10602530	Elect 10μF 25V
C617	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C618	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
C619	1	1	1	1	1	DF15472300	Film 4700pF ±5%
C620	1	1	1	1	1	DF15472300	Film 4700pF ±5%
C621	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
C622	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
C623	1	1	1	1	1	DF15683350	Film 0.068μF ±5%
C624	1	1	1	1	1	DF15683350	Film 0.068μF ±5%
C625	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
C626	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
C627	1	1	1	1	1	DF15104350	Film 0.1μF ±5%
C628	1	1	1	1	1	DF15104350	Film 0.1μF ±5%
C629	1	1	1	1	1	DF15154350	Film 0.15μF ±5%
C630	1	1	1	1	1	DF15154350	Film 0.15μF ±5%
C631	1	1	1	1	1	EA10602530	Elect 10μF 25V
C632	1	1	1	1	1	EA10602530	Elect 10μF 25V
C633	1	1	1	1	1	DF15224350	Film 0.22μF ±5%
C634	1	1	1	1	1	DF15224350	Film 0.22μF ±5%
C635	1	1	1	1	1	DF15472300	Film 4700pF ±5%
C636	1	1	1	1	1	DF15472300	Film 4700pF ±5%
C637	1	1	1	1	1	EA10602530	Elect 10μF 25V
C638	1	1	1	1	1	EA10602530	Elect 10μF 25V
C639	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
C640	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
C641	1	1	1	1	1	DF15104350	Film 0.1μF ±5%
C642	1	1	1	1	1	DF15104350	Film 0.1μF ±5%
C643	1	1	1	1	1	EA47701630	Elect 470μF 16V
C644	1	1	1	1	1	EA47701630	Elect 470μF 16V
C645	1	1	1	1	1	EA22602530	Elect 22μF 25V
C646	1	1	1	1	1	EA22602530	Elect 22μF 25V
C647	1	1	1	1	1	DF15272300	Film 2700pF ±5%
C648	1	1	1	1	1	DF15272300	Film 2700pF ±5%
C651	1	1	1	1	1	EA10602530	Elect 10μF 25V
C652	1	1	1	1	1	EA10505030	Elect 1μF 50V

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
							P601-RESISTORS (All Resistors are ±5% & ¼W)
R601	1	1	1	1	1	GD05242140	2.4KΩ
R602	1	1	1	1	1	GD05242140	2.4KΩ
R603	1	1	1	1	1	GD05562140	5.6KΩ
R604	1	1	1	1	1	GD05562140	5.6KΩ
R605	1	1	1	1	1	GD05123140	12KΩ
R606	1	1	1	1	1	GD05123140	12KΩ
R609	1	1	1	1	1	GD05472140	4.7KΩ
R610	1	1	1	1	1	GD05472140	4.7KΩ
R613	1	1	1	1	1	GD05102140	1KΩ
R614	1	1	1	1	1	GD05102140	1KΩ
R615	1	1	1	1	1	GD05683140	68KΩ
R616	1	1	1	1	1	GD05683140	68KΩ
R617	1	1	1	1	1	GD05222140	2.2KΩ
R618	1	1	1	1	1	GD05222140	2.2KΩ
R619	1	1	1	1	1	GD05512140	5.1KΩ
R620	1	1	1	1	1	GD05512140	5.1KΩ
R623	1	1	1	1	1	GD05473140	47KΩ
R624	1	1	1	1	1	GD05473140	47KΩ
R625	1	1	1	1	1	GD05472140	4.7KΩ
R626	1	1	1	1	1	GD05472140	4.7KΩ
R427	1	1	1	1	1	GD05334140	330KΩ
R628	1	1	1	1	1	GD05334140	330KΩ
R629	1	1	1	1	1	GD05123140	12KΩ
R630	1	1	1	1	1	GD05123140	12KΩ
R631	1	1	1	1	1	GD05823140	82KΩ
R632	1	1	1	1	1	GD05823140	82KΩ
R633	1	1	1	1	1	GD05394140	390KΩ
R634	1	1	1	1	1	GD05394140	390KΩ
R635	1	1	1	1	1	GD05154140	150KΩ
R636	1	1	1	1	1	GD05154140	150KΩ
R637	1	1	1	1	1	GD05154140	150KΩ
R638	1	1	1	1	1	GD05154140	150KΩ
R641	1	1	1	1	1	GD05334140	330KΩ
R642	1	1	1	1	1	GD05334140	330KΩ
R643	1	1	1	1	1	GD05394140	390KΩ
R644	1	1	1	1	1	GD05394140	390KΩ
R645	1	1	1	1	1	GD05103140	10KΩ
R646	1	1	1	1	1	GD05103140	10KΩ
R647	1	1	1	1	1	GD05103140	10KΩ
R648	1	1	1	1	1	GD05103140	10KΩ
R651	1	1	1	1	1	GD05223140	22KΩ
R652	1	1	1	1	1	GD05332140	3.3KΩ
R653	1	1	1	1	1	GD05823140	82KΩ
R654	1	1	1	1	1	GD05223140	22KΩ
R655	1	1	1	1	1	GD05183140	18KΩ
R656	1	1	1	1	1	GD05392140	3.9KΩ

(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
							P601-SEMICONDUCTORS
D651	1	1	1	1	1	HD20001000	Diode 1S1555
Q601	1	1	1	1	1	HC10012270	IC NE652
Q602	1	1	1	1	1	HC10012270	IC NE652
Q603	1	1	1	1	1	HC10013270	IC NE654
Q604	1	1	1	1	1	HC10013270	IC NE654
Q611	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
Q612	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
Q613	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
Q614	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
Q651	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
Q652	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
Q653	1	1	1	1	1	HT326342A0	Transistors 2SC2634(R or S)
							P601-MISCELLANEOUS
J601	1	1	1	1	1	YJ06002430	Jack, (3P)
J602	1	1	1	1	1	YJ06002450	Jack, (6P)
J603	1	1	1	1	1	YJ06002460	Jack, (7P)
L601	1	1	1	1	1	LS10440050	M.P.X. Coil
L602	1	1	1	1	1	LS10440050	M.P.X. Coil
L603	1	1	1	1	1	LC23660600	Choke Coil, 36 mH
L604	1	1	1	1	1	LC23660600	Choke Coil, 36 mH
							P801-POWER SUPPLY CIRCUIT BOARD
P801	1	1	1	1	1	YK128T0210	P.W. Board, Power Supply
	1					ZZ128T0210	P.W. Board Assembly
		1	1			ZZ128T8210	P.W. Board Assembly
				1		ZZ128T7210	P.W. Board Assembly
							P801-CAPACITORS
C801	1	1	1	1	1	EA22803530	Elect 2200μF 35V
C803	1	1	1	1	1	EA47703530	Elect 470μF 35V
C804	1	1	1	1	1	EZ33702530	Elect 330μF 25V
C805	1	1	1	1	1	EA47602530	Elect 47μF 25V
C807	1	1	1	1	1	EA10801630	Elect 1000μF 16V
C808	1	1	1	1	1	EA47701630	Elect 470μF 16V
C809	1	1	1	1	1	EA33700630	Elect 330μF 6.3V
C811	1	1	1	1	1	EA47601030	Elect 47μF 10V
C812	1	1	1	1	1	DK18473320	Ceramic 0.047μF
C813	1	1	1	1	1	DK18473320	Ceramic 0.047μF
⚠G801	1					DK18103530	Ceramic 0.01μF AC125V
⚠G801		1	1	1		DK18103840	Ceramic 0.01μF AC400V
⚠G801					1	DK18103850	Ceramic 0.01μF AC250V
							P801-RESISTORS
⚠R802	1	1	1	1		RF05022120	2.2Ω ½W
⚠R802					1	GA05022010	2.2Ω ±5% 1W
R803	1	1	1	1	1	GA05471010	470Ω ±5% 1W
R804	1	1	1	1	1	GA05471010	470Ω ±5% 1W
R805	1	1	1	1	1	GD05223140	22KΩ ±5% ¼W
R807	1	1	1	1	1	GA05471010	470Ω ±5% 1W
R808	1					RF05082120	8.2Ω ±5% ½W
⚠R808		1	1	1		RF05100120	10Ω ±5% ½W
R808					1	GA05100010	10Ω ±5% 1W
R809	1	1	1	1	1	GA05471010	470Ω ±5% 1W
R810	1	1	1	1	1	GD05223140	22KΩ ±5% ¼W
R811	1	1	1	1	1	RA05010800	500Ω Trimming
R813	1	1	1	1	1	GA05471010	470Ω ±5% 1W
⚠R815	1					RF05010120	1Ω ±5% ½W
⚠R816	1	1	1	1	1	RF05022120	2.2Ω ±5% ½W

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
							P801-SEMICONDUCTORS
⚠D801	1	1	1	1	1	HD20026080	Diode RB151
D802	1	1	1	1	1	HD30028090	Zener WZ162
D803	1	1	1	1	1	HD30087090	Zener BZ130
D804	1	1	1	1	1	HD30052090	Zener WZ056
D805	1	1	1	1	1	HD30033090	Zener WZ052
D806	1	1	1	1	1	HD30031090	Zener WZ081
D807	1	1	1	1	1	HD30095090	Zener WZ034
⚠Q801	1	1	1	1	1	HT403131E0	Transistor 2SD313(E)
⚠Q802	1	1	1	1	1	HT403131E0	Transistor 2SD313(E)
Q803	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
⚠Q804	1	1	1	1	1	HT403131E0	Transistor 2SD313(E)
⚠Q805	1	1	1	1	1	HT403131E0	Transistor 2SD313(E)
Q806	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
⚠Q807	1	1	1	1	1	HT403131E0	Transistor 2SD313(E)
							P801-MISCELLANEOUS
J801	1	1	1	1	1	YJ06002430	Jack, (3P)
J802	1	1	1	1	1	YJ06002460	Jack, (7P)
J803	1	1	1	1	1	YL01010040	Terminal
J804	1				1	YL01010040	Terminal
⚠L801	1					TS15715060	Power Transformer
⚠L801		1	1			TS15715050	Power Transformer
⚠L801					1	TS15715070	Power Transformer
⚠L801				1		TS15716010	Power Transformer
S801	1					SP01010610	Push Switch, Power
⚠S801		1	1	1		SP01010600	Push Switch, Power
⚠S801					1	SP01010620	Push Switch, Power
							PJ01-MAIN CIRCUIT BOARD
PJ01	1	1	1	1	1	YK128T1610	P.W. Board, Main
	1	1	1	1		ZZ128T1610	P.W. Board Assembly
							PJ01-CAPACITORS
CJ01	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CJ02	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CJ03	1	1	1	1	1	DD15471370	Ceramic 470pF ±10%
CJ04	1	1	1	1	1	DD15471370	Ceramic 470pF ±10%
CJ05	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CJ06	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CJ07	1	1	1	1	1	EA22700630	Elect 220μF 6.3V
CJ08	1	1	1	1	1	EA22700630	Elect 220μF 6.3V
CJ09	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CJ10	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CJ11	1	1	1	1	1	EA10505030	Elect 1μF 50V
CJ12	1	1	1	1	1	EA10505030	Elect 1μF 50V
CJ13	1	1	1	1	1	DF15152300	Film 0.0015μF ±5%
CJ15	1	1	1	1	1	EA33601030	Elect 33μF 10V
CJ16	1	1	1	1	1	EA33601030	Elect 33μF 10V
CJ17	1	1	1	1	1	DF15153350	Film 0.015μF ±5%
CJ18	1	1	1	1	1	DF15153350	Film 0.015μF ±5%
CJ19	1	1	1	1	1	EA47405030	Elect 0.47μF 50V
CJ20	1	1	1	1	1	EA47405030	Elect 0.47μF 50V
CJ21	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CJ22	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CJ23	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CJ24	1	1	1	1	1	EA22505030	Elect 2.2μF 50V
CJ25	1	1	1	1	1	EA47503530	Elect 4.7μF 35V

(U): for U.S.A.
(N): for Europe
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REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
CJ26	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CJ29	1	1	1	1	1	EA47601030	Elect 47μF 10V
CJ30	1	1	1	1	1	EA47601030	Elect 47μF 10V
CJ31	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
CJ32	1	1	1	1	1	DF15473350	Film 0.047μF ±5%
CJ33	1	1	1	1	1	DF15102300	Film 1000pF ±5%
CJ34	1	1	1	1	1	DF15101370	Film 100pF ±5%
CJ35	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
CJ36	1	1	1	1	1	DF15333350	Film 0.033μF ±5%
CJ37	1	1	1	1	1	EA33601630	Elect 33μF 16V
CJ39	1	1	1	1	1	DD15821370	Ceramic 820pF ±5%
CJ40	1	1	1	1	1	DD15821370	Ceramic 820pF ±5%
CJ81	1	1	1	1	1	EA10601630	Elect 10μF 16V
CJ90	1	1	1	1	1	EA22701630	Elect 220μF 16V
CJ91	1	1	1	1	1	EA33702530	Elect 330μF 25V
CJ92	1	1	1	1	1	DF15102300	Film 1000pF ±5%
CJ93	1	1	1	1	1	EA22703530	Elect 220μF 35V
CJ94	1	1	1	1	1	EA10701630	Elect 100μF 16V
CJ98	1	1	1	1	1	DK18103300	Ceramic 0.01μF
CJ99	1	1	1	1	1	DK18103300	Ceramic 0.01μF
CK01	1	1	1	1	1	EA10602530	Elect 10μF 25V
CK02	1	1	1	1	1	EA10602530	Elect 10μF 25V
CK03	1	1	1	1	1	DD15101370	Ceramic 100pF ±5%
CK04	1	1	1	1	1	DD15101370	Ceramic 100pF ±5%
CK05	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CK06	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CK07	1	1	1	1	1	DF15102300	Film 1000pF ±5%
CK08	1	1	1	1	1	DF15102300	Film 1000pF ±5%
CK09	1	1	1	1	1	DF15392300	Film 3900pF ±5%
CK10	1	1	1	1	1	DF15392300	Film 3900pF ±5%
CK11	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CK12	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CK13	1	1	1	1	1	DF15104350	Film 0.1μF ±5%
CK14	1	1	1	1	1	DF15104350	Film 0.1μF ±5%
CK15	1	1	1	1	1	EA10602530	Elect 10μF 25V
CK16	1	1	1	1	1	EA10602530	Elect 10μF 25V
CK17	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK18	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK19	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
CK20	1	1	1	1	1	DF15103350	Film 0.01μF ±5%
CK21	1	1	1	1	1	DF15123350	Film 0.012μF ±5%
CK22	1	1	1	1	1	DF15123350	Film 0.012μF ±5%
CK23	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK24	1	1	1	1	1	DF15183350	Film 0.018μF ±5%
CK25	1	1	1	1	1	DD15220370	Ceramic 180pF ±5%
CK26	1	1	1	1	1	DD15220370	Ceramic 180pF ±5%
CK27	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
CK28	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
CK31	1	1	1	1	1	DF15101550	Film 100pF ±5%
CK32	1	1	1	1	1	DF15101550	Film 100pF ±5%
CK33	1	1	1	1	1	DF15392300	Film 3900pF ±5%
CK34	1	1	1	1	1	DF15392300	Film 3900pF ±5%
CK90	1	1	1	1	1	EA22701630	Elect 220μF 16V
CK91	1	1	1	1	1	EA22701630	Elect 220μF 16V
CK92	1	1	1	1	1	DK18103300	Ceramic 0.01μF
CK93	1	1	1	1	1	EA22601630	Elect 22μF 16V
CK97	1	1	1	1	1	DK18103300	Ceramic 0.01μF
CK99	1	1	1	1	1	DK18103300	Ceramic 0.01μF

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
CL01	1	1	1	1	1	DF15221550	Film 220pF ±5%
CL02	1	1	1	1	1	DF15221550	Film 220pF ±5%
CL03	1	1	1	1	1	DF15222550	Film 2200pF ±5%
CL04	1	1	1	1	1	EA33601630	Elect 33μF 16V
CL05	1	1	1	1	1	DF15472550	Film 4700pF ±5%
CL06	1	1	1	1	1	DF15272550	Film 2700pF ±5%
CL08	1	1	1	1	1	EA10602530	Eelct 10μF 25V
CL09	1	1	1	1	1	EA10701630	Elect 100μF 16V
CL10	1	1	1	1	1	EA22601630	Elect 22μF 16V
CM01	1	1	1	1	1	EA22601630	Elect 22μF 16V
CM02	1	1	1	1	1	EA22601630	Elect 22μF 16V
CU01	1	1	1	1	1	DD15221370	Ceramic 220pF ±5%
CU02	1	1	1	1	1	DD15221370	Ceramic 220pF ±5%
CU03	1	1	1	1	1	DK18103300	Ceramic 0.01μF
CU04	1	1	1	1	1	EA47503530	Elect 4.7μF 35V
CU05	1	1	1	1	1	EA10701630	Elect 100μF 16V
CU06	1	1	1	1	1	EQ47502530	Elect 4.7μF 25V
CU07	1	1	1	1	1	DK18103300	Ceramic 0.01μF
CU08	1	1	1	1	1	EA10602530	Elect 10μF 25V
CU09	1	1	1	1	1	DK18103300	Ceramic 0.01μF ±5%
CU10	1	1	1	1	1	EA22601630	Elect 22μF 16V
CU11	1	1	1	1	1	EA10602530	Elect 10μF 25V
CU13	1	1	1	1	1	DF15333350	Film 0.022μF
CU16	1	1	1	1	1	EA22601630	Elect 22μF 16V
CU17	1	1	1	1	1	EA47505030	Elect 4.7μF 50V
CU19	1	1	1	1	1	EA33601030	Elect 33μF 10V
CX01	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX02	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX03	1	1	1	1	1	EA10505030	Elect 1μF 50V
CX04	1	1	1	1	1	EA10505030	Elect 1μF 50V
							PJ01-RESISTORS (All Resistors are ±5% & ¼W)
RJ01	1	1	1	1	1	GD05100140	10Ω
RJ02	1	1	1	1	1	GD05100140	10Ω
RJ07	1	1	1	1	1	GD05332140	3.3KΩ
RJ08	1	1	1	1	1	GD05332140	3.3KΩ
RJ09	1	1	1	1	1	GD05273140	27KΩ
RJ10	1	1	1	1	1	GD05273140	27KΩ
RJ11	1	1	1	1	1	GD05820140	82Ω
RJ12	1	1	1	1	1	GD05820140	82Ω
RJ13	1	1	1	1	1	GD05823140	82KΩ
RJ14	1	1	1	1	1	GD05823140	82KΩ
RJ15	1	1	1	1	1	GD05184140	180KΩ
RJ16	1	1	1	1	1	GD05184140	180KΩ
RJ17	1	1	1	1	1	GD05562140	5.6KΩ
RJ18	1	1	1	1	1	GD05562140	5.6KΩ
RJ19	1	1	1	1	1	RA05020800	5KΩ Trimming
RJ20	1	1	1	1	1	RA05020800	5KΩ Trimming
RJ25	1	1	1	1	1	GD05104140	100KΩ
RJ26	1	1	1	1	1	GD05104140	100KΩ
RJ27	1	1	1	1	1	GD05332140	3.3KΩ
RJ28	1	1	1	1	1	GD05332410	3,3KΩ
RJ29	1	1	1	1	1	GD05103140	10KΩ
RJ30	1	1	1	1	1	GD05103140	10KΩ
RJ31	1	1	1	1	1	GD05103140	10KΩ
RJ32	1	1	1	1	1	GD05103140	10KΩ
RJ33	1	1	1	1	1	GD05182140	1.8KΩ
RJ34	1	1	1	1	1	GD05182140	1.8KΩ
RJ35	1	1	1	1	1	GD05184140	180KΩ
RJ36	1	1	1	1	1	GD05184140	180KΩ
RJ37	1	1	1	1	1	GD05392140	3.9KΩ
RJ38	1	1	1	1	1	GD05392140	3.9KΩ

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REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
RJ39	1	1	1	1	1	GD05153140	15KΩ
RJ40	1	1	1	1	1	GD05153140	15KΩ
RJ43	1	1	1	1	1	RA05030800	50KΩ, Trimming
RJ44	1	1	1	1	1	RA05030800	50KΩ, Trimming
RJ45	1	1	1	1	1	GD05153140	15KΩ
RJ46	1	1	1	1	1	GD05153140	15KΩ
RJ47	1	1	1	1	1	GD05103140	10KΩ
RJ48	1	1	1	1	1	GD05103140	10KΩ
RJ49	1	1	1	1	1	GD05682140	6.8KΩ
RJ50	1	1	1	1	1	GD05682140	6.8KΩ
RJ51	1	1	1	1	1	GD05333140	33KΩ
RJ52	1	1	1	1	1	GD05333140	33KΩ
RJ53	1	1	1	1	1	GD05333140	33KΩ
RJ54	1	1	1	1	1	GD05333140	33KΩ
RJ55	1	1	1	1	1	GD05153140	15KΩ
RJ56	1	1	1	1	1	GD05153140	15KΩ
RJ57	1	1	1	1	1	GD05332140	3.3KΩ
RJ58	1	1	1	1	1	GD05332140	3.3KΩ
RJ59	1	1	1	1	1	GD05273140	27KΩ
RJ60	1	1	1	1	1	GD05273140	27KΩ
RJ61	1	1	1	1	1	GD05184140	180KΩ
RJ62	1	1	1	1	1	GD05184140	180KΩ
RJ63	1	1	1	1	1	GD05221140	220Ω
RJ64	1	1	1	1	1	GD05221140	220Ω
RJ65	1	1	1	1	1	GD05103140	10KΩ
RJ66	1	1	1	1	1	GD05225140	2.2MΩ
RJ67	1	1	1	1	1	GD05102140	1KΩ
RJ68	1	1	1	1	1	GD05562140	5.6KΩ
RJ69	1	1	1	1	1	GD05823140	82KΩ
RJ70	1	1	1	1	1	GD05471140	470Ω
RJ71	1	1	1	1	1	GD05684140	680KΩ
RJ72	1	1	1	1	1	GD05224140	220KΩ
RJ73	1	1	1	1	1	GD05472140	4.7KΩ
RJ74	1	1	1	1	1	GD05561140	560Ω
RJ75	1	1	1	1	1	GD05333140	33KΩ
RJ76	1	1	1	1	1	GD05104140	100KΩ
RJ77	1	1	1	1	1	GD05102140	1KΩ
RJ78	1	1	1	1	1	GD05184140	180KΩ
RJ79	1	1	1	1	1	GD05125140	1.2MΩ
RJ81	1	1	1	1	1	GD05103140	10KΩ
RJ82	1	1	1	1	1	GD05103140	10KΩ
RJ83	1	1	1	1	1	GD05274140	270KΩ
RJ84	1	1	1	1	1	GD05274140	270KΩ
RJ90	1	1	1	1	1	GD05271140	270Ω
RJ91	1	1	1	1	1	GD05333140	33KΩ
RJ92	1	1	1	1	1	GD05682140	6.8KΩ
RJ93	1	1	1	1	1	GD05103140	10KΩ
RK01	1	1	1	1	1	GD05473140	47KΩ
RK02	1	1	1	1	1	GD05473140	47KΩ
RK03	1	1	1	1	1	GD05472140	4.7KΩ
RK04	1	1	1	1	1	GD05472140	4.7KΩ
RK05	1	1	1	1	1	GD05125140	1.2MΩ
RK06	1	1	1	1	1	GD05125140	1.2MΩ
RK07	1	1	1	1	1	GD05472140	4.7KΩ
RK08	1	1	1	1	1	GD05472140	4.7KΩ
RK09	1	1	1	1	1	GD05473140	47KΩ
RK10	1	1	1	1	1	GD05473140	47KΩ

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
RK11	1	1	1	1	1	GD05333140	33KΩ
RK12	1	1	1	1	1	GD05333140	33KΩ
RK13	1	1	1	1	1	RA02030800	20KΩ, Trimming
RK14	1	1	1	1	1	RA02030800	20KΩ, Trimming
RK15	1	1	1	1	1	GD05123140	12KΩ
RK16	1	1	1	1	1	GD05123140	12KΩ
RK17	1	1	1	1	1	GD05183140	18KΩ
RK18	1	1	1	1	1	GD05183140	18KΩ
RK19	1	1	1	1	1	GD05822140	8.2KΩ
RK20	1	1	1	1	1	GD05822140	8.2KΩ
RK21	1	1	1	1	1	GD05104140	100KΩ
RK22	1	1	1	1	1	GD05104140	100KΩ
RK23	1	1	1	1	1	GD05104140	100KΩ
RK24	1	1	1	1	1	GD05104140	100KΩ
RK27	1	1	1	1	1	GD05223140	22KΩ
RK28	1	1	1	1	1	GD05223140	22KΩ
RK29	1	1	1	1	1	GD05562140	5.6KΩ
RK30	1	1	1	1	1	GD05562140	5.6KΩ
RK31	1	1	1	1	1	GD05683140	68KΩ
RK32	1	1	1	1	1	GD05683140	68KΩ
RK33	1	1	1	1	1	GD05562140	5.6KΩ
RK34	1	1	1	1	1	GD05562140	5.6KΩ
RK35	1	1	1	1	1	GD05821140	820Ω
RK36	1	1	1	1	1	GD05821140	820Ω
RK37	1	1	1	1	1	GD05822140	8.2KΩ
RK38	1	1	1	1	1	GD05822140	8.2KΩ
RK39	1	1	1	1	1	GD05122140	1.2KΩ
RK40	1	1	1	1	1	GD05122140	1.2KΩ
RK41	1	1	1	1	1	GD05473140	47KΩ
RK42	1	1	1	1	1	GD05473140	47KΩ
RK43	1	1	1	1	1	GD05390140	39Ω
RK44	1	1	1	1	1	GD05390140	39Ω
RK45	1	1	1	1	1	GD05100140	10Ω
RK46	1	1	1	1	1	GD05100140	10Ω
RK47	1	1	1	1	1	GD05562140	5.6KΩ
RK48	1	1	1	1	1	GD05562140	5.6KΩ
RK49	1	1	1	1	1	GD05272140	2.7KΩ
RK50	1	1	1	1	1	GD05272140	2.7KΩ
RK51	1	1	1	1	1	GD05104140	100KΩ
RK52	1	1	1	1	1	GD05101140	100Ω
RK53	1	1	1	1	1	GD05122140	1.2KΩ
RK54	1	1	1	1	1	GD05332140	3.3KΩ
RK55	1	1	1	1	1	GD05470140	47Ω
RK56	1	1	1	1	1	GD05470140	47Ω
RK57	1	1	1	1	1	GD05223140	22KΩ
RK58	1	1	1	1	1	GD05223140	22KΩ
RK90	1	1	1	1	1	GD05271140	270Ω
RK93	1	1	1	1	1	GF05820120	82Ω
RK94	1	1	1	1	1	GD05473140	47KΩ
RL01	1	1	1	1	1	RA05030290	50KΩ, Trimming
RL02	1	1	1	1	1	RA05030290	50KΩ, Trimming
RL03	1	1	1	1	1	GD05153140	15KΩ
RL04	1	1	1	1	1	GD05153140	15KΩ
RL05	1	1	1	1	1	GG05033140	3.3Ω
RL06	1	1	1	1	1	GD05222140	2.2KΩ
RL08	1	1	1	1	1	GD05182140	1.8KΩ
RL09	1	1	1	1	1	GD05331140	330Ω
RL10	1	1	1	1	1	GD05123140	12KΩ
RL11	1	1	1	1	1	GD05683140	68KΩ

(U): for U.S.A.
(N): for Europe
(A): for Australia
(E): for Europe
(F): for Japan

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
RL12	1	1	1	1	1	RK01030440	10KΩ, Variable
RL13	1	1	1	1	1	GD05333140	33KΩ
RL14	1	1	1	1	1	GD05183140	18KΩ
RL17	1	1	1	1	1	GD05331140	330Ω
RL18	1	1	1	1	1	RA02020800	2KΩ, Trimming
RL19	1	1	1	1	1	GD05152140	1.5KΩ
RL20	1	1	1	1	1	RA01030800	10KΩ, Trimming
RL21	1	1	1	1	1	GD05562140	5.6KΩ
RL22	1	1	1	1	1	GD05822140	8.2KΩ
RL23	1	1	1	1	1	GD05332140	3.3KΩ
RL24	1	1	1	1	1	GD05121140	120Ω
RL25	1	1	1	1	1	NF02100140	10Ω ±1pF
RM01	1	1	1	1	1	GD05473140	47KΩ
RM02	1	1	1	1	1	GD05152140	1.5KΩ
RM03	1	1	1	1	1	GD05473140	47KΩ
RM04	1	1	1	1	1	GD05473140	47KΩ
RM05	1	1	1	1	1	GD05102140	1KΩ
RM06	1	1	1	1	1	GD05102140	1KΩ
RM07	1	1	1	1	1	GD05473140	47KΩ
RM08	1	1	1	1	1	GD05152140	1.5KΩ
RU01	1	1	1	1	1	GD05103140	10KΩ
RU02	1	1	1	1	1	GD05103140	10KΩ
RU03	1	1	1	1	1	GD05103140	10KΩ
RU04	1	1	1	1	1	GD05103140	10KΩ
RU05	1	1	1	1	1	GD05103140	10KΩ
RU06	1	1	1	1	1	GD05103140	10KΩ
RU07	1	1	1	1	1	GD05103140	10KΩ
RU08	1	1	1	1	1	GD05103140	10KΩ
RU09	1	1	1	1	1	GD05103140	10KΩ
RU10	1	1	1	1	1	GD05103140	10KΩ
RU11	1	1	1	1	1	GD05103140	10KΩ
RU12	1	1	1	1	1	GD05222140	2.2KΩ
RU13	1	1	1	1	1	GD05471140	470Ω
RU14	1	1	1	1	1	GD05561140	560Ω
RU15	1	1	1	1	1	GD05181140	180Ω
RU16	1	1	1	1	1	GD05181140	180Ω
RU17	1	1	1	1	1	GD05181140	180Ω
RU18	1	1	1	1	1	GD05181140	180Ω
RU19	1	1	1	1	1	GD05181140	180Ω
RU20	1	1	1	1	1	GD05562140	5.6KΩ
RU21	1	1	1	1	1	GD05105140	1MΩ
RU22	1	1	1	1	1	GD05181140	180Ω
RU24	1	1	1	1	1	GD05271140	270Ω
RU25	1	1	1	1	1	GD05103140	10KΩ
RU26	1	1	1	1	1	GD05562140	5.6KΩ
RU27	1	1	1	1	1	GD05125140	1.2MΩ
RU28	1	1	1	1	1	GD05123140	12KΩ
RU29	1	1	1	1	1	GD05473140	47KΩ
RU30	1	1	1	1	1	GD05473140	47KΩ
RU31	1	1	1	1	1	GD05472140	4.7KΩ
RU32	1	1	1	1	1	GD05103140	10KΩ
RU33	1	1	1	1	1	GD05562140	5.6KΩ
RU34	1	1	1	1	1	GD05472140	4.7KΩ
RU35	1	1	1	1	1	GD05562140	5.6KΩ
RU36	1	1	1	1	1	GD05104140	100KΩ
RU37	1	1	1	1	1	GD05122140	1.2KΩ
RU38	1	1	1	1	1	GD05102140	1KΩ
RU39	1	1	1	1	1	RF05033120	3.3Ω ½W
RU40	1	1	1	1	1	GD05562140	5.6KΩ
RU41	1	1	1	1	1	GD05184140	180KΩ

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
RU42	1	1	1	1	1	GD05103140	10KΩ
RU43	1	1	1	1	1	GD05473140	47KΩ
RU44	1	1	1	1	1	GD05103140	10KΩ
RU45	1	1	1	1	1	GD05222140	2.2KΩ
RU46	1	1	1	1	1	GD05103140	10KΩ
RU53	1	1	1	1	1	GD05122140	1.2KΩ
RU54	1	1	1	1	1	GD05122140	1.2KΩ
RU55	1	1	1	1	1	GD05122140	1.2KΩ
RU56	1	1	1	1	1	GD05122140	1.2KΩ
RU57	1	1	1	1	1	GD05122140	1.2KΩ
RU58	1	1	1	1	1	GD05562140	5.6KΩ
RU59	1	1	1	1	1	GD05103140	10KΩ
RU60	1	1	1	1	1	GD05153140	15KΩ
RX01	1	1	1	1	1	RA02030800	20KΩ, Trimming
RX02	1	1	1	1	1	RA02030800	20KΩ, Trimming
RX03	1	1	1	1	1	GD05273140	27KΩ
RX04	1	1	1	1	1	GD05273140	27KΩ
RX05	1	1	1	1	1	GD05473140	47KΩ
RX06	1	1	1	1	1	GD05473140	47KΩ
RX07	1	1	1	1	1	GD05153140	15KΩ
RX08	1	1	1	1	1	GD05153140	15KΩ
RX09	1	1	1	1	1	GD05821140	820Ω
RX10	1	1	1	1	1	GD05562140	5.6KΩ
							PJ01-SEMICONDUCTORS
DJ01	1	1	1	1	1	HD20001000	Diode 1S1555
DJ02	1	1	1	1	1	HD20015030	Diode DS135D
DJ03	1	1	1	1	1	HD30024090	Zener WX-120
DJ04	1	1	1	1	1	HD20001000	Diode 1S1555
DK01	1	1	1	1	1	HD20001000	Diode 1S1555
DK02	1	1	1	1	1	HD20001000	Diode 1S1555
DK03	1	1	1	1	1	HD20001000	Diode 1S1555
DU01	1	1	1	1	1	HD20001000	Diode 1S1555
DU02	1	1	1	1	1	HD20001000	Diode 1S1555
DU03	1	1	1	1	1	HD20001000	Diode 1S1555
DU05	1	1	1	1	1	HD20001000	Diode 1S1555
DU06	1	1	1	1	1	HD20015030	Diode DS135D
DU07	1	1	1	1	1	HD20015030	Diode DS135D
DU08	1	1	1	1	1	HD20015030	Diode DS135D
DU09	1	1	1	1	1	HD20001000	Diode 1S1555
DU10	1	1	1	1	1	HD20015030	Diode DS135D
DU11	1	1	1	1	1	HD20001000	Diode 1S1555
DU12	1	1	1	1	1	HD20001000	Diode 1S1555
DU14	1	1	1	1	1	HD20001000	Diode 1S1555
DU15	1	1	1	1	1	HD20001000	Diode 1S1555
DU16	1	1	1	1	1	HD30095090	Zener WZ-034
DU17	1	1	1	1	1	HD10004020	Diode QA-91
DU18	1	1	1	1	1	HD20001000	Diode 1S1555
DU51	1	1	1	1	1	HD20001000	Diode 1S1555
DU52	1	1	1	1	1	HD20001000	Diode 1S1555
DX01	1	1	1	1	1	HD10004020	Diode OA91
DX02	1	1	1	1	1	HD10004020	Diode OA91
DX03	1	1	1	1	1	HD20001000	Diode 1S1555
DX04	1	1	1	1	1	HD20001000	Diode 1S1555
DX05	1	1	1	1	1	HD10004020	Diode OA91
DX06	1	1	1	1	1	HD10004020	Diode OA91

(U): for U.S.A.
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REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
QJ03	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ04	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ09	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QJ10	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QJ11	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QJ12	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QJ13	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ14	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ15	1	1	1	1	1	HC10017090	IC NJM2043DD
QJ16	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QJ17	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ18	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ19	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QJ20	1	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
QJ21	1	1	1	1	1	HC10007090	IC NJM4560D
QJ22	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QK01	1	1	1	1	1	HT318451U0	Transistor 2SC1845(U)
QK02	1	1	1	1	1	HT318451U0	Transistor 2SC1845(U)
QK03	1	1	1	1	1	HC10003090	Transistor NJM4558D
QK05	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QK06	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QK07	1	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
QK08	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QK09	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QK10	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QK11	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QK12	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QK21	1	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
QK91	1	1	1	1	1	HT326342A0	Transistor 2SC2634(R or S)
QL02	1	1	1	1	1	HT313831R0	Transistor 2SC1383(R)
QL03	1	1	1	1	1	HT403131E0	Transistor 2SD313(E)
QL04	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QL05	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QL06	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QL07	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QM01	1	1	1	1	1	HT313832C0	Transistor 2SC1383(R or S)
QM02	1	1	1	1	1	HT313832C0	Transistor 2SC1383(R or S)
QM03	1	1	1	1	1	HT106832C0	Transistor 2SA683(R or S)
QM04	1	1	1	1	1	HT106832C0	Transistor 2SA683(R or S)
QU01	1	1	1	1	1	HC10075030	IC LM6402A-075
QU02	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QU04	1	1	1	1	1	HT313832C0	Transistor 2SC1383(R or S)
QU05	1	1	1	1	1	HT313832C0	Transistor 2SC1383(R or S)
QU06	1	1	1	1	1	HT313832C0	Transistor 2SC1383(R or S)
QU07	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QU08	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QU09	1	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
QU10	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QU11	1	1	1	1	1	HT308282A0	Transistor 2SC828(R or S)
QU12	1	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
QU13	1	1	1	1	1	HT107332A0	Transistor 2SA733(P or Q)
QX01	1	1	1	1	1	HH00003030	Thermistor SDT-04
QX02	1	1	1	1	1	HH00003030	THermistor SDT-04
							PJ01-MISCELLANEOUS
JJ51	1	1	1	1	1	YP06002420	Plug, (6P)
JJ52	1					YT02040480	Terminal, (4P) RCA Jack
JJ52		1	1	1	1	YT02040470	Terminal, (4P) RCA Jack
JK01	1	1	1	1	1	YJ01001780	Jack, Mick(L)
JK02	1	1	1	1	1	YJ01001780	Jack, Mick(R)

REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
JL72	1	1	1	1	1	YP06002360	Plug, (3P)
JU01	1	1	1	1	1	YP06002430	Plug, (8P)
JU02	1	1	1	1	1	YP06001070	Plug, (9P)
JU04	1	1	1	1	1	YJ90000220	Jack, (9P)
JU05	1	1	1	1	1	YP06002370	Plug
JU06	1	1	1	1	1	YJ06002430	Jack
JX01	1	1	1	1	1	YJ06002390	Jack, (5P)
LK01	1	1	1	1	1	LC24750600	Choke Coil, 4.7mH
LK02	1	1	1	1	1	LC24750600	Choke Coil, 4.7mH
LK03	1	1	1	1	1	LC22260600	Choke Coil, 22mH
LK04	1	1	1	1	1	LC22260600	Choke Coil, 22mH
LL01	1	1	1	1	1	TC10440040	OSC Transformer
LL02	1	1	1	1	1	LC11540040	Choke Coil
SK01	1	1	1	1	1	SP04010380	Push Switch, Mic/Line
SU01	1	1	1	1	1	SP04050240	Push Switch, Normal
SU02	1	1	1	1	1	SP04050240	Push Switch, Special
SU03	1	1	1	1	1	SP04050240	Push Switch, Metal
SU05	1	1	1	1	1	SP04050240	Push Switch, Dolby NR
SU06	1	1	1	1	1	SP04050240	Push Switch, Dolby NR B/C
WJ01	1	1	1	1	1	YU03380260	Jumper Lead, (3P)
WJ02	1	1	1	1	1	YU07220260	Jumper Lead, (7P)
WJ03	1	1	1	1	1	YU03480260	Jumper Lead, (3P)
WJ04	1	1	1	1	1	YU03090260	Jumper Lead, (3P)
WJ05	1	1	1	1	1	YU06160260	Jumper Lead, (6P)
WJ06	1	1	1	1	1	YU07200260	Jumper Lead, (7P)
WK01	1	1	1	1	1	YU03120260	Jumper Lead, (3P)
WU01	1	1	1	1	1	YU03440260	Jumper Lead, (3P)
WX01	1	1	1	1	1	YU05200260	Jumper Lead, (5P)
XU21	1	1	1	1	1	FQ04003010	Seramic VIB, 400KHz
							PJ02-HEADPHONE CIRCUIT BOARD
PJ02	1	1	1	1	1	YK128T1650	P.W. Board, Headpohone
	1	1	1	1		ZZ128T1650	P.W. Board Assembly
CJ99	1	1	1	1	1	DK18103300	Ceramic Cap. 0.01μF
JJ01	1	1	1	1	1	YJ01001790	Jack, Headphone
							PK01-RECORD VOLUME CIRCUIT BOARD
PK01	1	1	1	1	1	YK128T1620	P.W. Board, Record Volume
	1	1	1	1		ZZ128T1620	P.W. Board Assembly
RK91	1	1	1	1	1	RX05030210	Variable Resistor, 50KΩ(L)
RK92	1	1	1	1		RX05030210	Variable Resistor, 50KΩ(R)

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REF. DESIG.	Q'TY U	N	A	E	F	PART NO.	DESCRIPTION
							PU01-TIMER SWITCH CIRCUIT BOARD
PU01	1	1	1	1	1	YK128T1660	P.W. Board, Timer Switch
	1	1	1	1		ZZ128T1660	P.W. Board Assembly
SU07	1	1	1	1	1	SS02030190	Slide Switch, Timer
							PY01-KEY SWITCH CIRCUIT BOARD
PY01	1	1	1	1	1	YK128T1630	P.W. Board, Key Switch
	1	1	1	1		ZZ138T1630	P.W. Board Assembly
DY01	1	1	1	1	1	HI10035020	L.E.D. LN38GP
DY02	1	1	1	1	1	HI10035020	L.E.D. LN38GP
DY03	1	1	1	1	1	HI10035020	L.E.D. LN38GP
DY04	1	1	1	1	1	HI10036020	L.E.D. LN48YP
DY05	1	1	1	1	1	HI10022020	L.E.D. LN28RP
DY06	1	1	1	1	1	HI10022020	L.E.D. LN28RP
DY07	1	1	1	1	1	HD20001000	Diode 1S1555
SY01	1	1	1	1	1	SP01010580	Push Switch, FF
SY02	1	1	1	1	1	SP01010580	Push Switch, PLAY
SY03	1	1	1	1	1	SP01010580	Push Switch, REW
SY04	1	1	1	1	1	SP01010580	Push Switch, PAUSE
SY05	1	1	1	1	1	SP01010580	Push Switch, REC
SY06	1	1	1	1	1	SP01010580	Push Switch, Skip/Rec Mute
SY07	1	1	1	1	1	SP01010580	Push Switch, STOP
SY08	1	1	1	1	1	SP01010580	Push Switch, STOP
WY01	1	1	1	1	1	YU06480260	Jumper Lead, (6P)
WY02	1	1	1	1	1	YU07420460	Jumper Lead, (7P)
							PY02-INDICATOR CIRCUIT BOARD
PY02	1	1	1	1	1	YK128T1640	P.W. Board, Indicator
	1	1	1	1		ZZ128T1640	P.W. Board Assembly
DY11	1	1	1	1	1	HI10031020	L.E.D. LN324GP
DY12	1	1	1	1	1	HI10031020	L.E.D. LN324GP
DY13	1	1	1	1	1	HI10031020	L.E.D. LN324GP
DY14	1	1	1	1	1	HI10031020	L.E.D. LN324GP
DY15	1	1	1	1	1	HI10031020	L.E.D. LN324GP
WY03	1	1	1	1	1	YU06160260	Jumper Lead, (6P)

(W01-99)	**Assembly and Wiring**
(T01-99)	**Adjustment**
(X01-00)	**Correction**

NOTE ON SAFETY:
SYMBOL ⚠ FIRE OR ELECTRICAL SHOCK HAZARD. ONLY ORIGINAL PARTS SHOULD BE USED TO REPLACE ANY PART MARKED WITH SYMBOL ⚠. ANY OTHER COMPONENT SUBSTITUTION (OTHER THAN ORIGINAL TYPE), MAY INCREASE RISK OF FIRE OR ELECTRICAL SHOCK HAZARD.

11. TECNICAL SPECIFICATIONS

Style	Front load
Tape Drive System	Single Capstan Drive
Cartridge	Philips type compact cassette
Track System	Compatible Stereo 4-track 2-channel
Tape Speed	4.75 cm/sec.
Heads	2 Head System
Composition	Rec/Play: Super Hard Metal Alloy
	Erase: Dual gap Ferrite
Motor	2 Motor System
	Capstan DC Servo Motor
	Mechanism: IC Logic
Overall Frequency Response at -20 dB	
Normal Tape	25 Hz ~ 17 kHz
CrO_2 Tape	25 Hz ~ 19 kHz
Metal Tape	25 Hz ~ 20 kHz
Signal-to-Noise Ratio:	
Dolby B/C (ON)	69/75 dB
Dolby (OFF)	59 dB
Wow and Flutter	
DIN WTD	±0.09%
Outputs	
Line Level/Impedance	600 mV/5 KΩ
Headphone Level/Impedance	50 mV/180 Ω
Input (Level at 0 VU)	
Line Sensitivity/Impedance	65 mV/50 kΩ
Mic Sensitivity/Impedance	0.3 mV/10 kΩ
Fast Rewind Time	80 sec. (C-60)
Fast Forward Time	80 sec. (C-60)
AC Line Voltage	
U version	120V AC, 50/60Hz
A.T.N version	220V/240V AC, 50/60 Hz
E. version	110V/120V/220V/240V AC, 50/60Hz
Power Consumption	30W
Dimensions (W x H x D)	416 x 100 x 300 mm
Weight	5.5 kg

Specifications and appearance are subject to change for modification without notice.

Q801,Q802,Q804
Q805,Q807,QL03
HT403131E0
2SD313(E)
Pc : 1.75W
Vcbo : 60V

Q803,Q806,QJ09～QJ12
QJ16,QJ22,QK08～QK12
QL04～ QL07,QU02
QU07,QU08,QU10,QU11
HT308282A0
2SC828(R or S)

QJ03,QJ04,QJ13,QJ14
QJ17～QJ19,QK05,QK06
HT326342A0
2SC2634(R or S)

QJ15
HC10017090
NJM2043DD

QK91
HC10003090
NJM4558D

QJ20,QK07,QK21
QU09,QU12,QU13
HT107332A1
2SA733(P or Q)

QJ21
HC10007090
NJM4560D

QK01,QK02
HT318451U0(U)
2SC1845U

QK03
HC10003090
NJM4558D

QL02
HT313831R0
2SC1383(R)

QM01,QM02
QU04～QU06
HT313832C0
2SC1383(R or S)

QM03,QM04
HT106832C0
2SA683(R or S)

QX01,QX02
HH00003030
SDT-04

D801
HD20026080
RB-151
VR : 100V
Io : 1.5A

D802
HD30025090
WZ-150

D803
HD30087090
BZ-130

D804
HD30052090
WZ056

D805
HD30036090
WZ052

D806
HD30031090
WZ081

D807
HD30095090
WZ-034

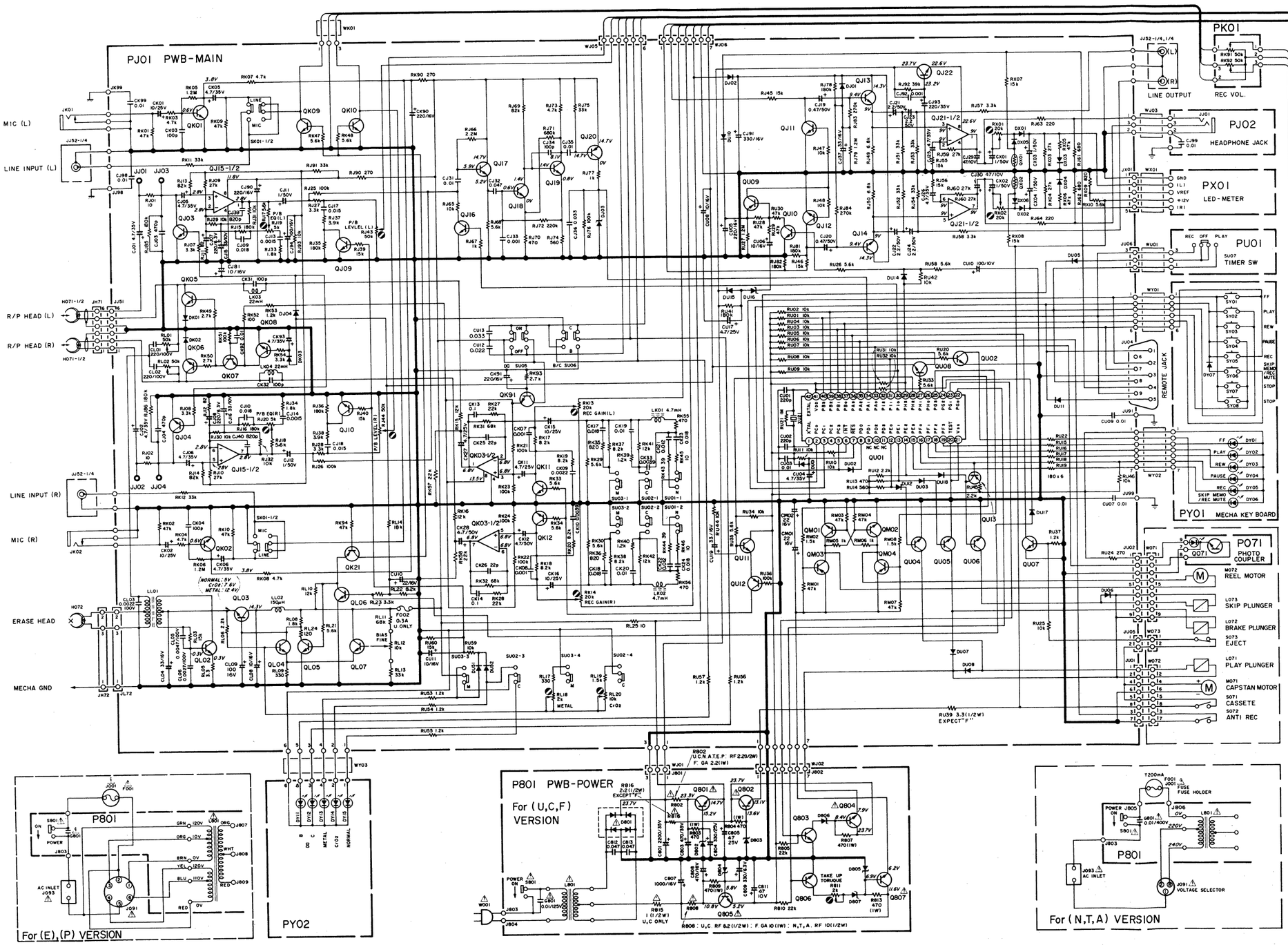
QL91
HT308282A0
2SC828

DJ01,DK01,DK02,DU09
DU01～DU03,DU05
DU11,DU51,DU52
DX03,DX04,DY07
DU12,DU14,DU15
DU17,DU18,DJ04
HD20001000
1S1555 or 1S2473
1S2076 or DS448
MA150

DJ02,DU06～DU08
DU10
HD20015032
DSI35D

DJ03
HD30024090
WZ-120

DX01,DX02,DX05,DX06
HD10004020
0A91

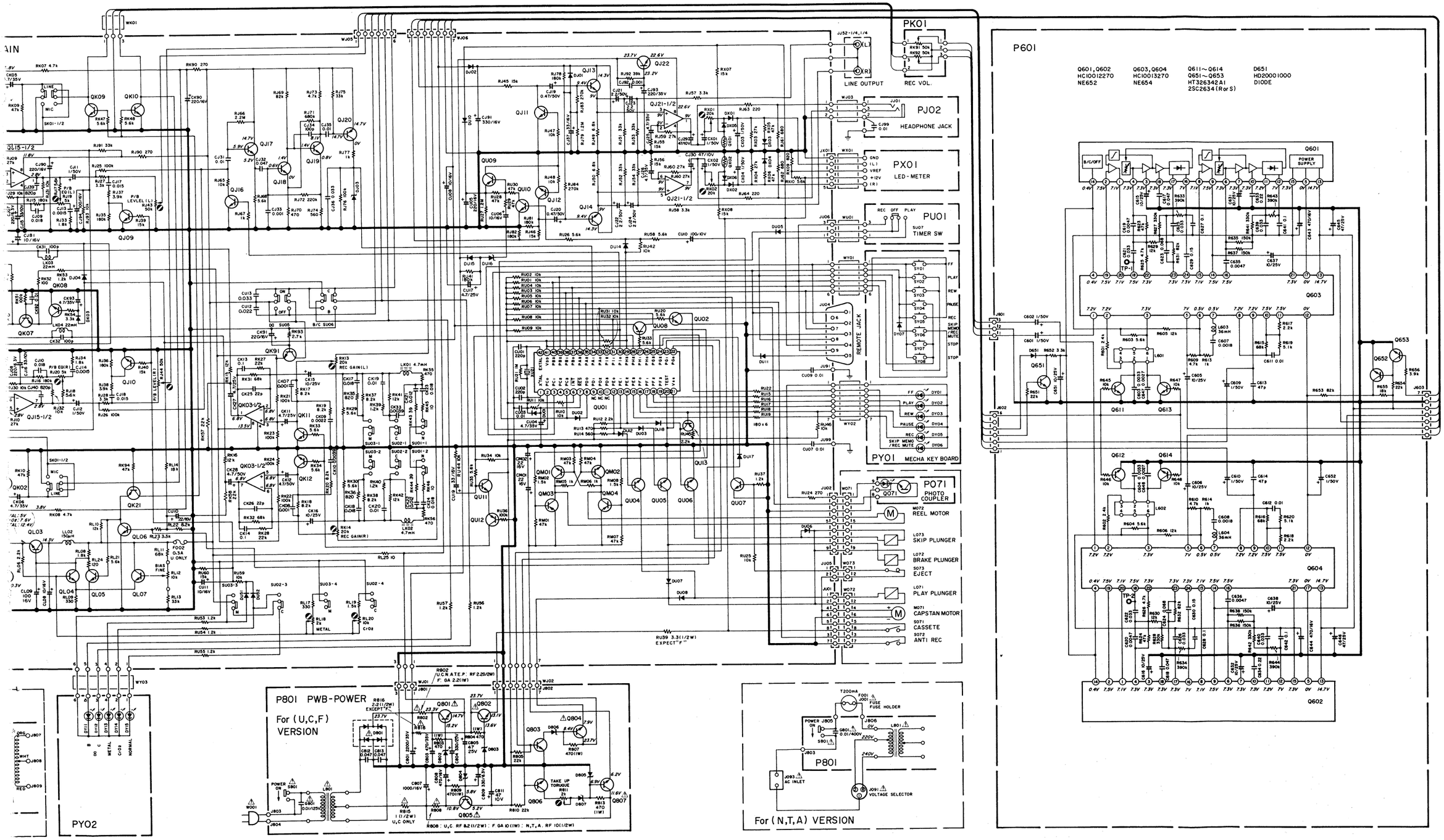


NOTE ON SAFETY:
SYMBOL ⚠ FIRE OR ELECTRICAL SHOCK HAZARD. ONLY ORIGINAL PARTS SHOULD BE USED TO REPLACE ANY PART MARKED WITH SYMBOL ⚠. ANY OTHER COMPONENT SUBSTITUTION (OTHER THAN ORIGINAL TYPE), MAY INCREASE RISK OF FIRE OR ELECTRICAL SHOCK HAZARD.

Components and wiring are subject to change for modification without notice.

model SD420

Q4,QJ13,QJ14 QJ19,QK05,QK06 2SA20 (RorS)	QJ15 HC10017090 NJM2043DD	QJ20,QK07,QK21 QJ09,QJ12,QJ13 HT107332A1 2SA733(PorQ)	QJ21 HC10007090 NJM4560D	QK01,QK02 HT318451U0(U) 2SC1845U	QK03 HC10003090 NJM4558D	QL02 HT313831R0 2SC1383(R)	QM01,QM02 QU04～QU06 HT313832C0 2SC1383(RorS)	QM03,QM04 HT106832C0 2SA683(RorS)	QX01,QX02 HH00003030 SDT-04	DB01 HD20026080 RB-151 VR : 100V Io : 1.5A	DB02 HD30025090 WZ-150	DB03 HD30087090 BZ-130	DB04 HD30052090 WZ056	DB05 HD30036090 WZ052	DB06 HD30031090 WZ081 DB07 HD30095090 WZ-034 QL91 HT308282A0 2SC828	DJ01,DK01,DK02,DU09 DU01～DU03,DU05 DU11,DU51,DU52 DX03,DX04,DY07 DUI2,DUI4,DUI5 DUI7,DUI8,DJ04 HD20001000 1S1555 or 1S2473 1S2076 or DS448 MA150	DJ02,DU06～DU08 DU10 HD20015032 DS135D	DJ03 HD30024090 WZ-120	DX01,DX02,DX05,DX06 HD10004020 0A91	DY01～DY03 HI10035020 LN38GP	DY04 HI10036020 LN48YP	DY05,DY06 HI10022020 LN28RP	DY11～DY15 HI10031020 LN324GP	PX01 HI11203320 LT-1008



. SHOCK HAZARD. ONLY
O TO REPLACE ANY PART
NY OTHER COMPONENT
IGINAL TYPE), MAY IN-
TRICAL SHOCK HAZARD.

Components and wiring are subject to change for modification without notice.